

Service Manual

Colour Video Projector
PT-302
chassis No. Q5



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power Source:	AC 220V ~ 240V, 50/60 Hz	4318 mm (170 inch) Picture size:
Power Consumption:	179W (average)	5102 mm (200 7/8 inch)
Projection Tube:	7 inches (179 mm) specially developed High-Brightness liquid cooled CRTs (R, G, B).	5080 mm (200 inch) Picture size: 5963 mm (234 3/4 inch) 6350 mm (250 inch) Picture size: 7400 mm (291 11/32 inch) 7620 mm (300 inch) Picture size: 8835 mm (345 27/32 inch) 500 lumens (typical) at white peak
Lenses:	Double Focus, Three F 1.0 f145 Lenses (HYBRID)	Light Flux: Operating Ambient Temperature: Operating Ambient Humidity: Supplied Accessories:
Resolution:	Video..... 650 TV Lines (typical) RGB..... 1000 TV Lines (typical)	32°F ~ 104°F (0°C ~ +40°C)
Video Input Level:	1 ± 0.3Vp-p 75Ω	20% ~ 80%
Line in/out Level:	1 ± 0.3Vp-p 75Ω or high impedance	AC Cord (3 types)
RGB Input Level	R: 0.7 ± 0.3Vp-p 75Ω G: 0.7 ± 0.3Vp-p 75Ω (G SYNC: 1 ± 0.3Vp-p 75Ω) B: 0.7 ± 0.3Vp-p 75Ω H/HV: 0.3 ~ 6V, high impedance V: 0.3 ~ 6V, high impedance	Mounting kit (1 set)
Screen Size:	3810 ~ 7620 mm (150 ~ 300 inch)	Dimensions: Height: 290 mm (11 13/32 inch) Width: 576 mm (22 11/16 inch) Depth: 606 mm (23 29/32 inch)
Throw Distance:	3810 mm (150 inch) Picture size: 4528 mm (178 1/4 inch)	Weight: 77 lbs. (35 kg)

Specifications are subject to change without notice.
 Weight and dimensions shown are approximate.

Panasonic

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CONTENTS

FEATURES	2
SAFETY PRECAUTIONS	3
LOCATION OF CONTROLS, OPERATIONS AND CONNECTION OPTIONAL EQUIPMENT	4 ~ 8
DISASSEMBLY INSTRUCTIONS	9, 10
MAIN PARTS LOCATION CHART	11
CAUTIONS FOR SERVICING	12, 13
FIELD ADJUSTMENTS	14 ~ 20
INSTALLATION/ADJUSTMENT PROCEDURE	21 ~ 32
LOCATION OF TEST POINT AND CONTROLS	33 ~ 35
BLOCK DIAGRAM	36 ~ 38
INTERCONNECTION	39, 40
TERMINAL GUIDE OF IC'S, TRANSISTOR AND DIODES	41
CIRCUIT BOARD	42 ~ 54
SCHEMATIC DIAGRAM	55 ~ 74
F/K/P/Q/V/X-BOARD Sections	57, 58
M-BOARD Section	59, 60
B/S/LR/LG/LB-BOARD Sections	65 ~ 68
C/J/TR1/TR2-BOARD Sections	69 ~ 71
A/G/R/T-BOARD Sections	72 ~ 74
EXPLODED VIEWS	75 ~ 80
TROUBLESHOOTING	81, 82
REPLACEMENT PARTS LIST	83 ~ 110

FEATURES

- 1 Superb bright picture: High luminance output:
500 lumens (typical) at white peak
- 2 Superb resolution:
1000 Lines (RGB) (typical)
650 Lines (Video) (typical)
RGB character reproduction:
equivalent to 2000 characters
(80 x 25)
- 3 Compact size and light weight (35 kg, 77 lbs), for easy placement/installation.
- 4 Compatibility with various signal input sources:

VTR/VCR	Video Disk
Video Camera	RGB Computer
TV Tuner	
- 5 Improved raster quality:
High voltage regulation characteristic: $0.3 \text{ M}\Omega$
- 6 Ceiling/floor installation and front/rear projection easily selectable.
 - Ceiling mount/front projection
 - Ceiling mount/rear projection
 - Floor placement/front projection
 - Ceiling mount rear projection with mirror
 - Floor placement rear projection with mirror
- 7 Wide-range computer compatibility
- 8 Four broadcast system capability
PAL, SECAM, NTSC and M-NTSC 4.43

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. It is advisable to use an isolation transformer in the AC line supply before servicing this model.
2. When servicing observe the original lead dress, especially in the high voltage circuit. In case of a short circuit, replace every part which has overheated.
3. After servicing observe that all protective devices such as insulation barriers, fish paper, shields, isolation networks and fuses are properly installed.
4. Before turning the receiver on, the resistance between the B+ line and chassis ground should be checked. Connect the \ominus side of an ohmmeter to the B+ line and the \oplus side to chassis ground. Each line should have more resistance than specified, as follows:

B+ (B-) Line	Minimum Resistance
206V	10k Ω
116V	3k Ω
27V	300 Ω
17V	200 Ω
12V	100 Ω
10V	3 Ω
* -17V	150 Ω

* — Side to ground

5. If the set is not intended to be used for a long time, the power cord should be unplugged from the AC line outlet.
6. Potentials, as high as 32.5 kV are present when this set is in operation. Removal of the covers involves the danger of a shock hazard from the set's power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment. Always discharge the anode of the projection tube to the set chassis before handling the tube.
7. After servicing, make the following leakage current checks to prevent a shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two plug prongs.
2. Turn on the set.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part such as screwheads, input terminals, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 490 k Ω and 9 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2 k Ω , 10W resistor, in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 volts RMS. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT-CHECK CIRCUIT

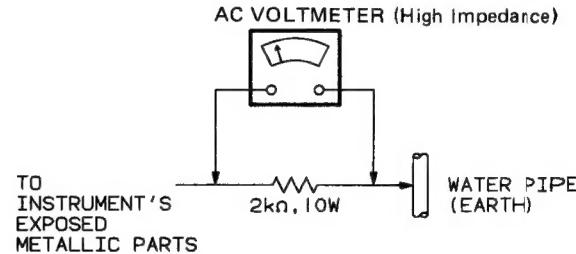


Fig. 1

X-RADIATION

WARNING: The potential source of X-Radiation in the color Projection System is the High Voltage section and the projection tubes.

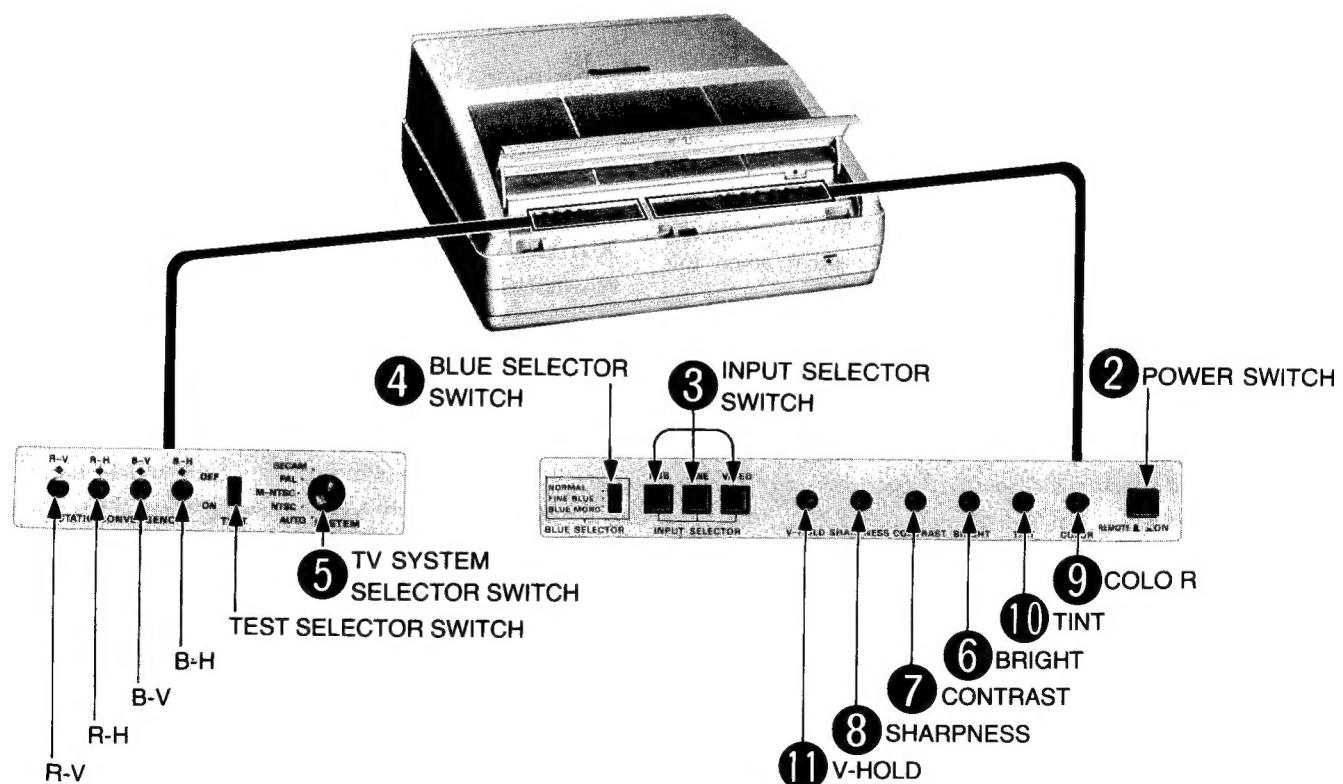
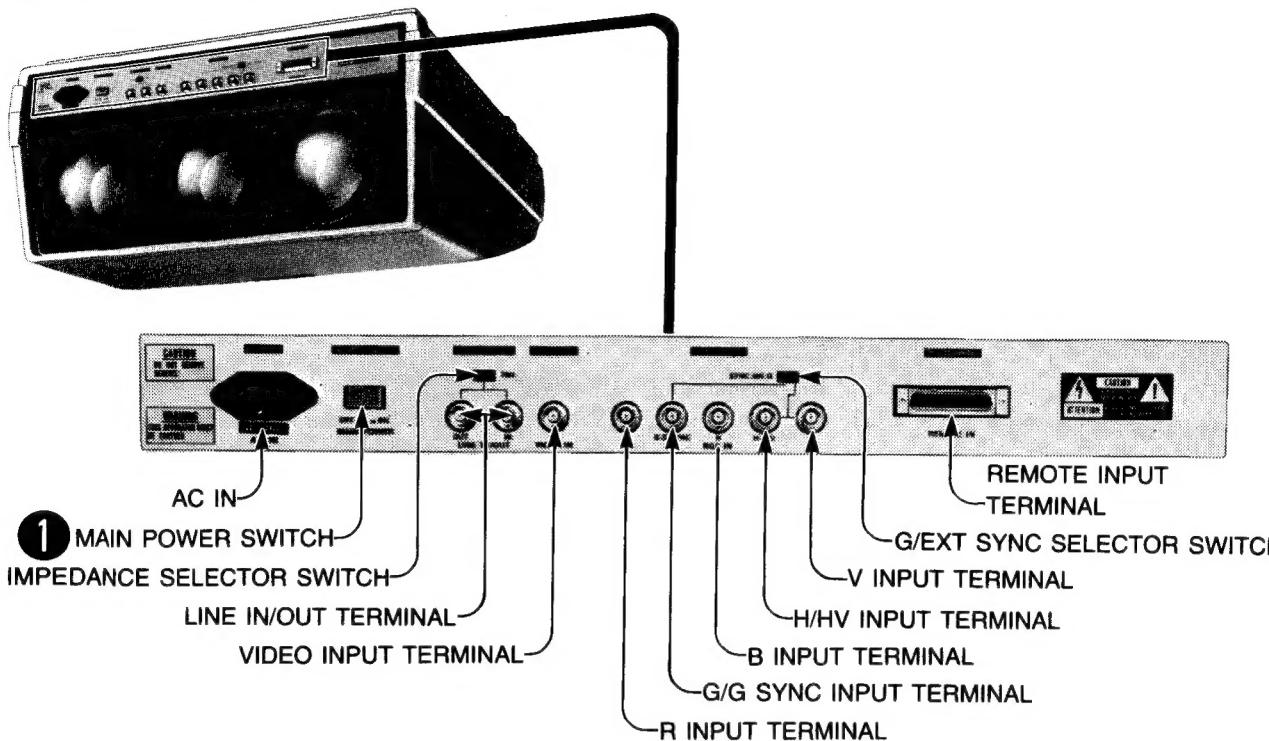
NOTE: It is important to use an accurate, periodically calibrated high voltage meter.

1. Turn the Brightness control fully counterclockwise.
2. Measure the High Voltage. The high voltage meter should indicate 32 kV \pm 0.5 kV. If the upper meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. (Refer to high voltage adjustment in the manual.)
3. To prevent an X-Radiation possibility, it is essential to use the specified projection tube only.
4. To prevent exposure to X-Radiation, the projection tube shield must be kept in place with power off tied to the set.

WARNING: When using a projection tube test jig for service, ensure that jig is capable of handling 32.5 kV without causing X-Radiation.

LOCATION OF CONTROLS, OPERATION AND CONNECTING OPTIONAL EQUIPMENT

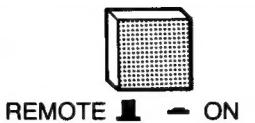
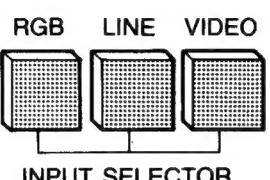
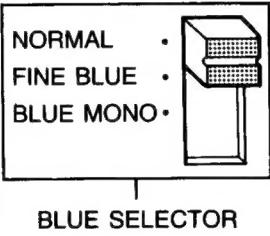
LOCATION OF CONTROLS



OPERATION

To operate the projector switches **1** and **2** must be turned ON, and switch **3** must be set to the proper input signal type.

Note: When the separately supplied remote controller (ET-12R) is connected to the video projector, switches **2** through **4** and **6** through **10** are inoperable. Please use the remote controller for these functions.

No.	Switch.	PURPOSE	
1	MAIN POWER SWITCH		Switches main power supply ON/OFF. MAIN POWER
2	POWER SWITCH		Power ON/OFF switch. This switch is set to the OFF position, when the remote control is in use.
3	INPUT SELECTOR SWITCHES		VIDEO...Push this button to view signals input via the VIDEO input terminal. LINE ...Push this button to view signals input via the LINE input terminal. RGB ...Push this button to view signals input via the RGB input terminal.
4	BLUE SELECTOR SWITCH		This switch is operable only when RGB signals are being received. Use this switch when the blue portion of the picture is weak. NORMAL ...Normal blue. FINE BLUE ...A finer, easier-on-the-eye, blue. BLUE MONO...White picture on a blue background. Note: When Linear or TTL RGB signals are input at inappropriate levels, the FINE BLUE and BLUE MONO modes might not operate properly.
5	TV SYSTEM SELECTOR SWITCH		This switch is normally set at AUTO. However, if the picture quality is bad due to the use of dubbed tapes, etc., reception may not be satisfactory. In that case, set the switch to the appropriate input signal using a screwdriver.

USE OF CONTROLS

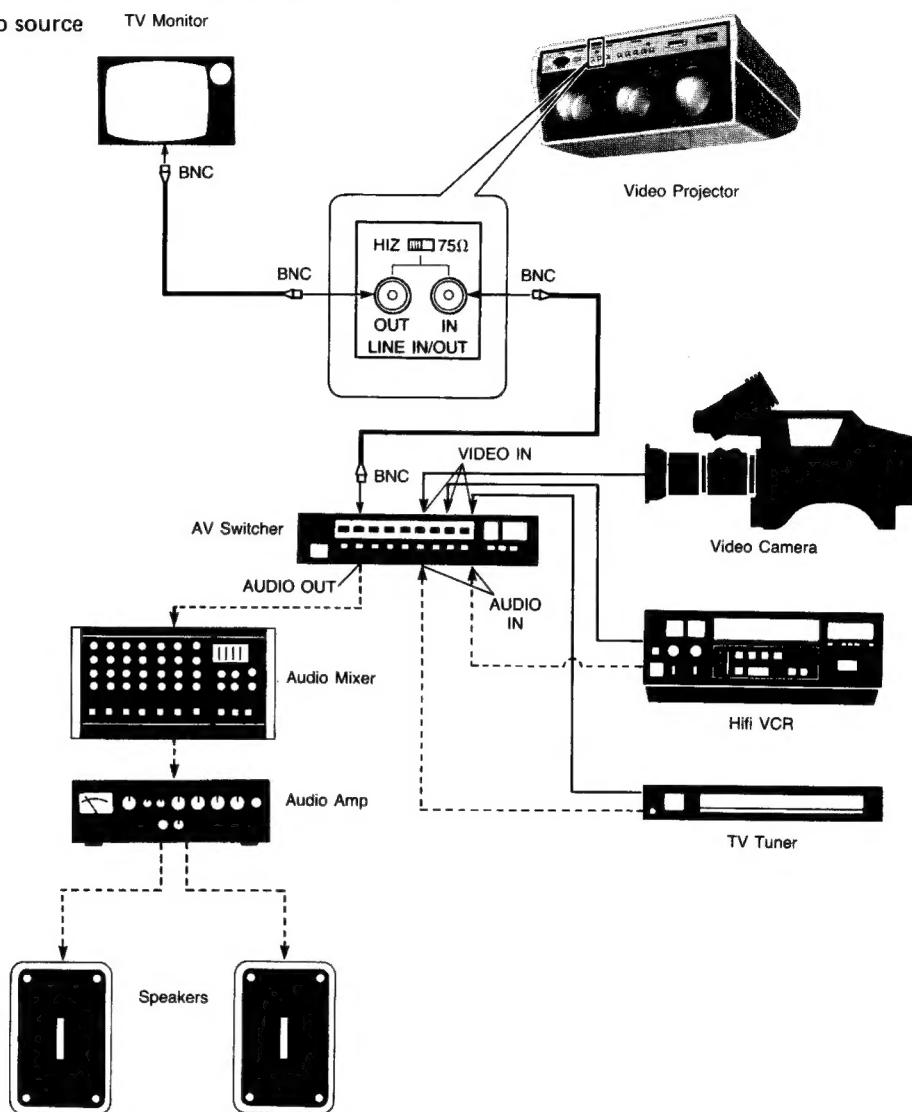
6	BRIGHT	 Decrease Increase	The click-stop indicates standard brightness. Adjust to the appropriate brightness level for current viewing conditions.
7	CONTRAST	 Decrease Increase	Adjust to a desirable color intensity.
8	SHARPNESS	 soft sharp	To obtain a sharper picture rotate the control clockwise. For a softer picture rotate the control counter-clockwise.
9	COLOR	 Low Color High Color	Adjust to a comfortable viewing level, a slightly less intense picture is easier on the eyes.
10	TINT	 red green	Adjust for proper skin tone.
11	V-HOLD	 UP DOWN	If the picture rolls, as shown, adjust the control UP or DOWN until it stabilises.

CONNECTING OPTIONAL EQUIPMENT

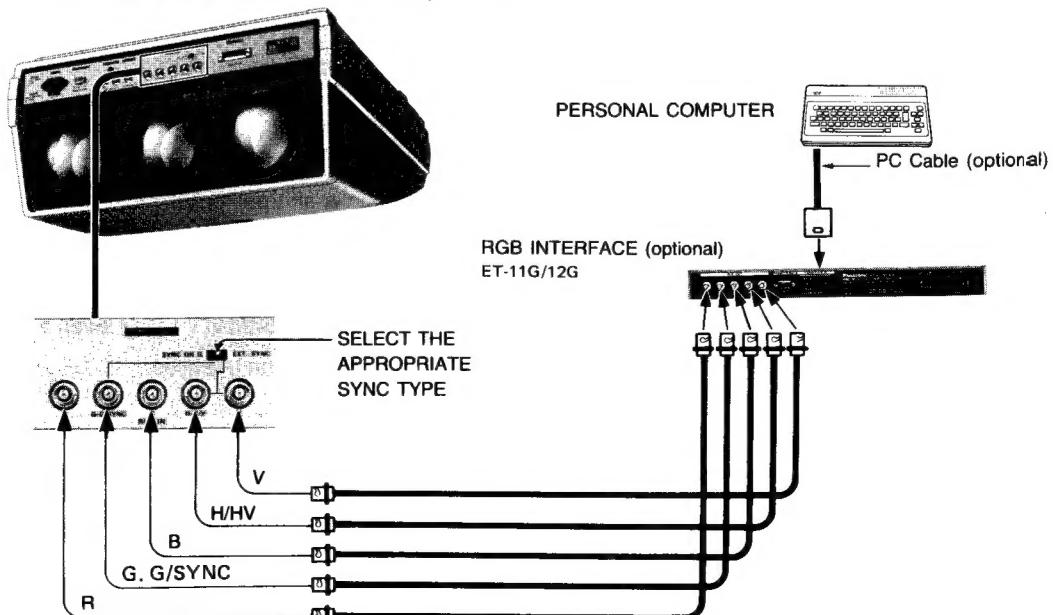
Connect optional equipment (example) according to following illustration.

CASE 1: Connection to a video source

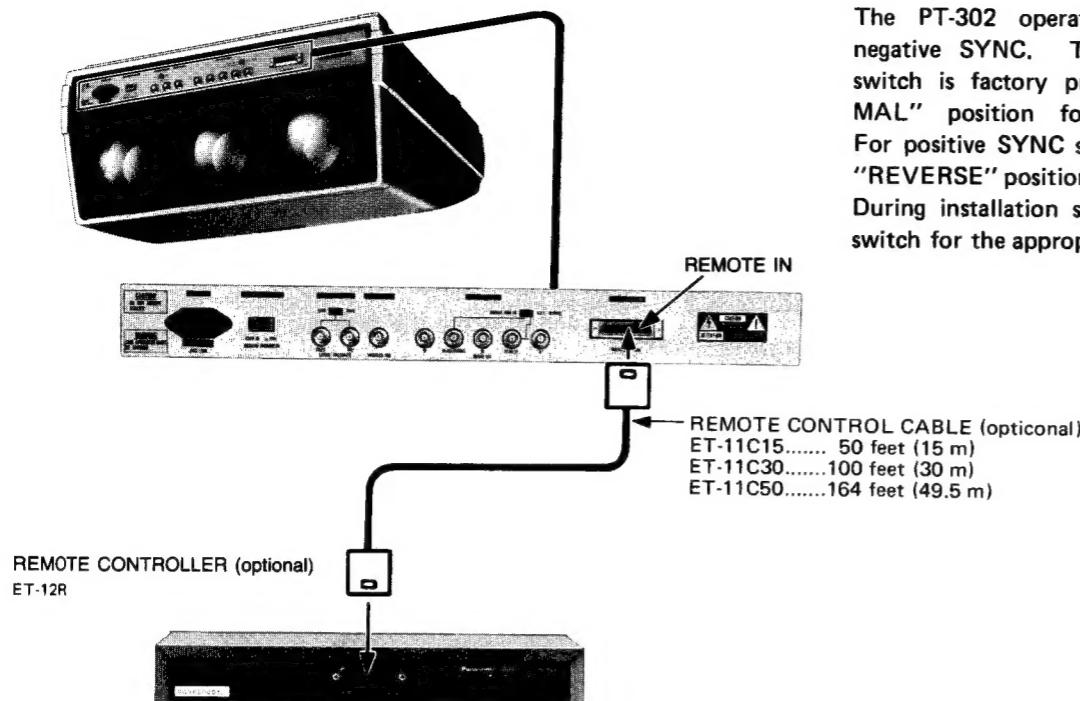
TV Monitor



CASE2: Connection to the RGB interface ET-11G/12G (optional)



CASE 3: Connection to the remote controller ET-12R (optional)

**Note:**

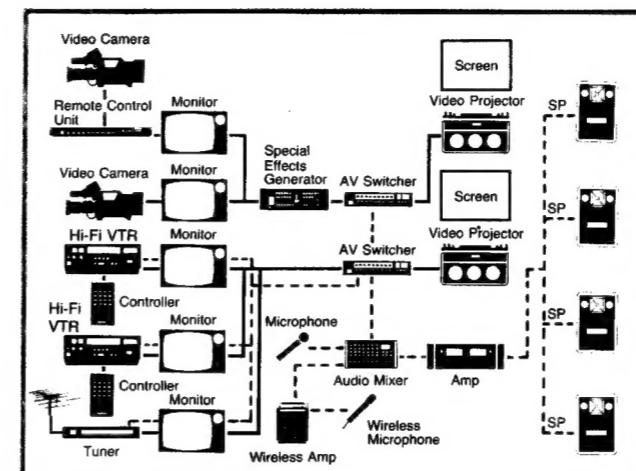
The PT-302 operates on positive or negative SYNC. The SYNC inverting switch is factory preset to the "NORMAL" position for negative SYNC. For positive SYNC set the switch to the "REVERSE" position. During installation set the SYNC invert switch for the appropriate SYNC polarity.

EXAMPLE 2**Entertainment System 1**

This system is ideal for use for parties, ceremonies, etc. to be held in large places. Great effects are possible with the powerful video images from colour video projectors, when combined with video cameras and audio equipment.

Applications:

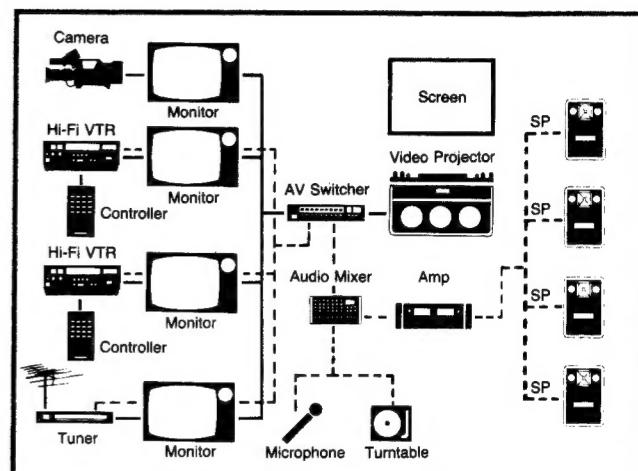
- Banquet Halls
- Lounges Discos

**EXAMPLE 3****Entertainment System 2**

This system is particularly suited to such recreational facilities as bars, restaurant, dance clubs, etc. A wide variety of atmospheric effects can be produced. When used together with stereo sound, a relaxed aura of "background video" and "mood" music, or dynamic video images with music with a beat to match.

Applications:

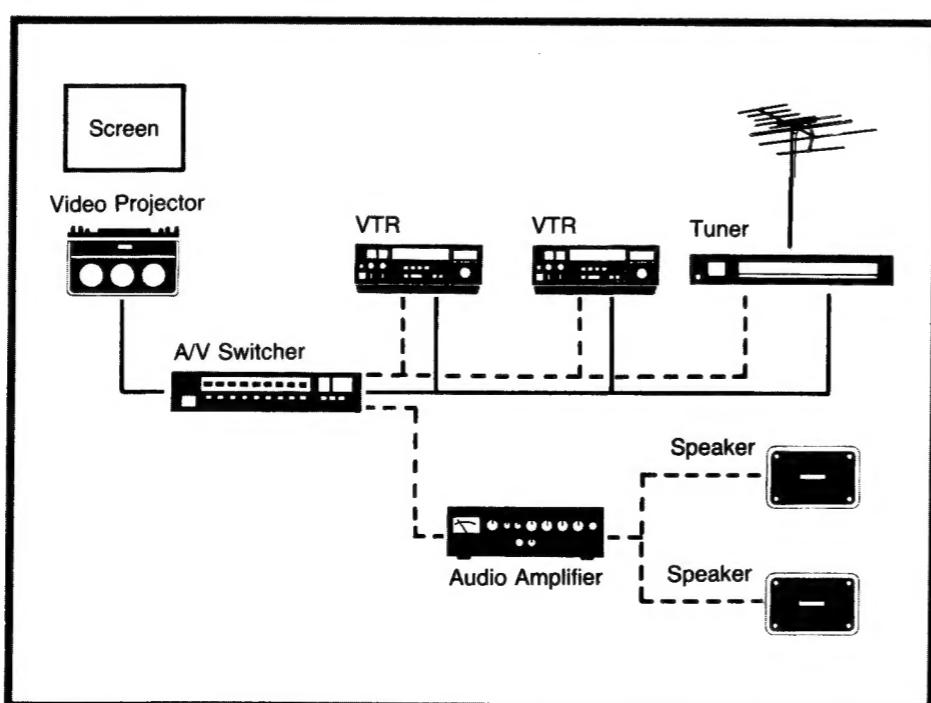
- Lounges Discos
- Restaurants

**EXAMPLE 1****Presentation System**

This is the most orthodox VTR playback system. Various variations can be developed on this system according to the required applications.

Applications:

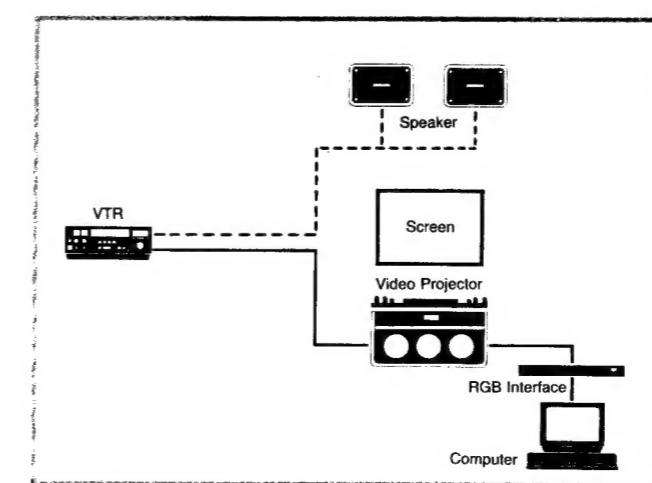
- Conference Rooms
- Classrooms
- Public Areas

**EXAMPLE 4****Business Application**

This system is designed to concentrate on data presentations for business, conferences, showrooms, etc. Its superb resolution and capacity to match various types of personal computers make it ideal for upgrading office-automation systems and diversified video/data services.

Applications:

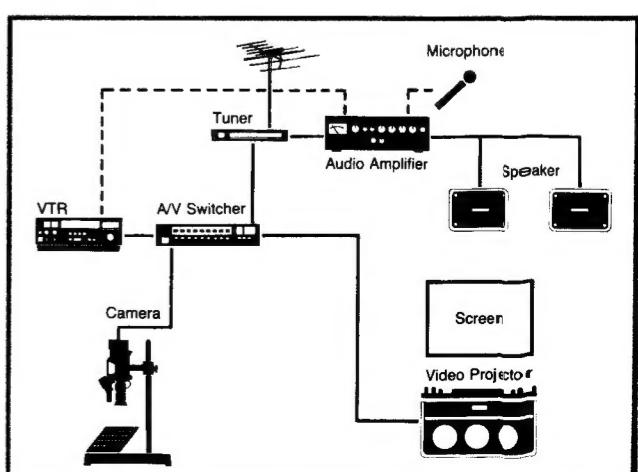
- Conference Rooms
- Training Areas
- Information Displays

**EXAMPLE 5****Educational System**

Ideal for a wide range of educational activities, particularly as an effective teaching aid.

Applications:

- Classrooms
- Auditoriums
- Lecture Halls



DISASSEMBLY INSTRUCTIONS

1. HOW TO REMOVE THE TOP COVER

- 1) Open the cover of control panel.
- 2) Remove 3 screws **(A)** in fig. 2.
- 3) Then pull the Top Cover toward the back side of the deck and carefully lift it for removal.

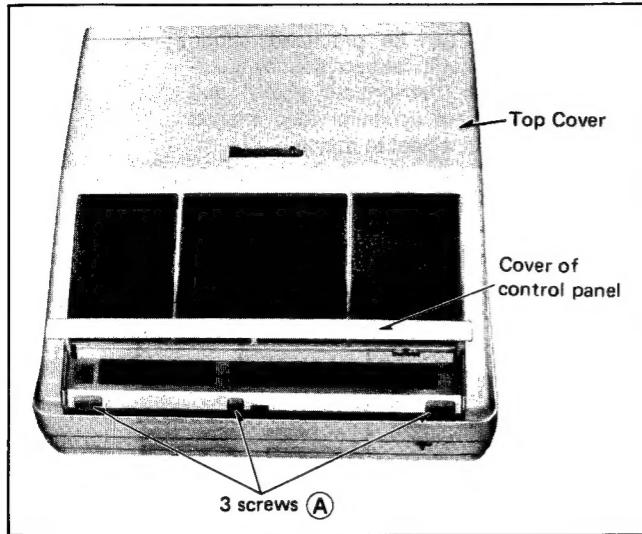


Fig. 2

2. HOW TO REMOVE THE LENS GRIL

- 1) Remove 4 screws **(B)** in fig. 3.
- 2) Remove the Lens Gril.

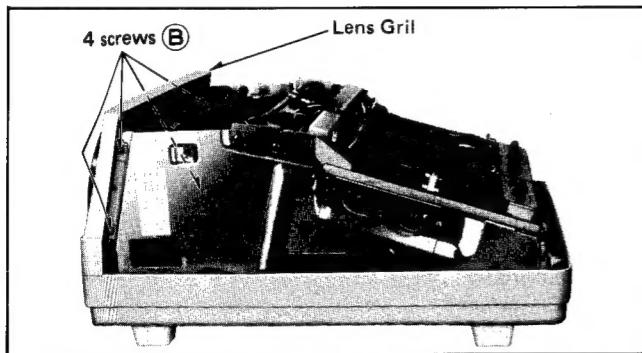


Fig. 3

3. HOW TO REMOVE THE CONVERGENCE CONTROL COVER

- 1) Open the cover of control panel.
- 2) Remove a 1 screw **(C)** in fig. 4.
- 3) Then pull the Convergence Control Cover toward the control panel side for removal.

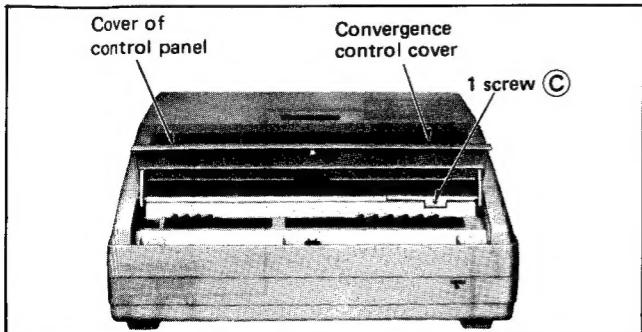


Fig. 4

4. HOW TO OPEN THE PRINTED CIRCUIT BOARD

1) C and D, V-Boards

- Loosen 2 screws **(D)** to counterclockwise by 90° in fig. 5.
- Then lift the rear of the chassis to open the "C", "D", V-Board.

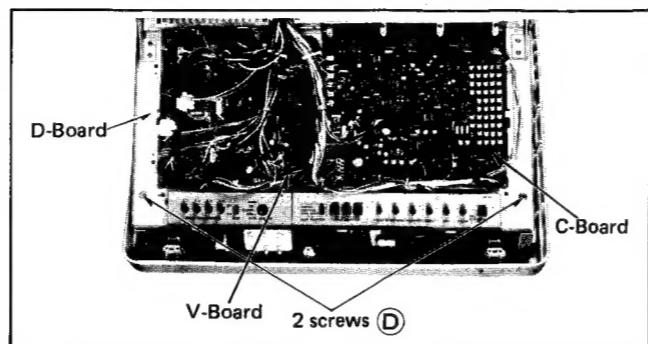


Fig. 5

2) "A" - "B"-Boards

- Remove a 1 screw **(E)** in fig. 6, and remove the P.C-Board fixing metal.
- Then carefully pull and lift the "A" and "B" Boards for removal.

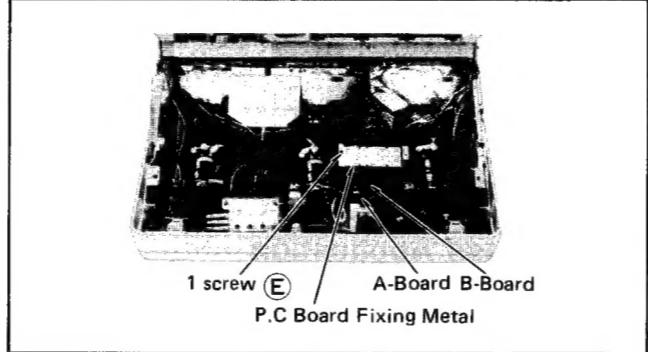


Fig. 6

3) "F"-Board

- Remove a 1 screw **(F)** in fig. 7, then open the F-Board.

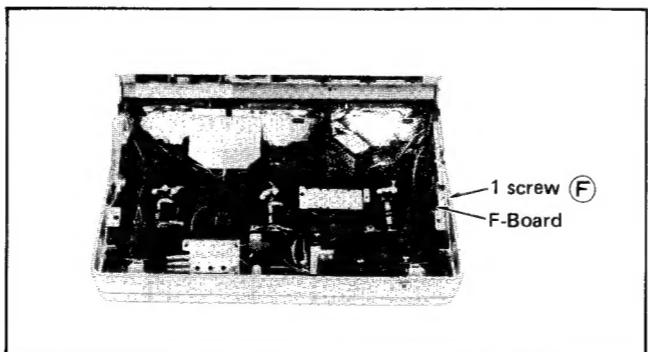


Fig. 7

4) "M"-Board

- Remove 3 screws **(G)** in fig. 8.
- Then pull the "M"-Board toward the back side of the deck, and carefully lift it to open the "M"-Board.

5) "G"-Board

- Remove 2 screws **(H)** in fig. 8.
- Then pull the "G"-Board toward the back side of the deck, and carefully lift it to open the "G"-Board.

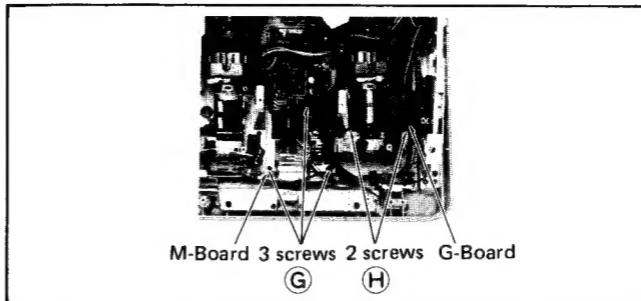


Fig. 8

6) "K"-Board

- Remove the Front Panel.
- Then carefully pull and lift the Terminal Panel for removal in fig. 9.
- Remove 2 screws **(I)** in fig. 10.
- Then lift and pull out the "K"-Board.

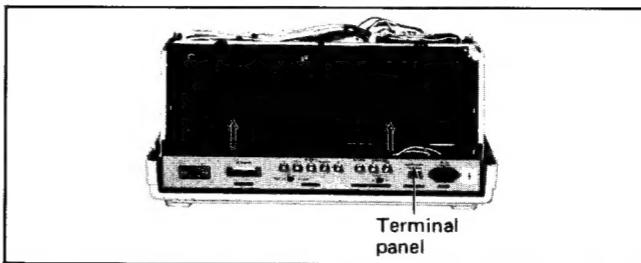


Fig. 9

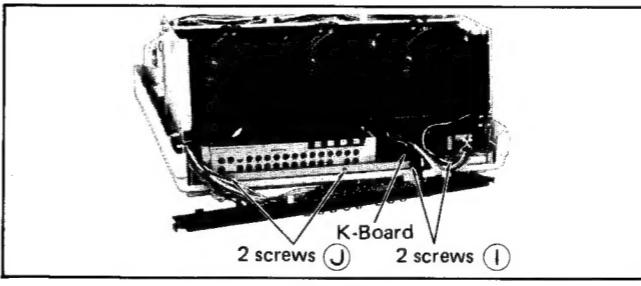


Fig. 10

7) "P" and "Q"-Boards

- Remove the Front Panel and Terminal Panel.
- Remove 2 screws **(J)** in fig. 10.
- Remove 4 screws **(K)** in fig. 11, and lift the box cover.
- Then open the "P" and "Q"-Boards.

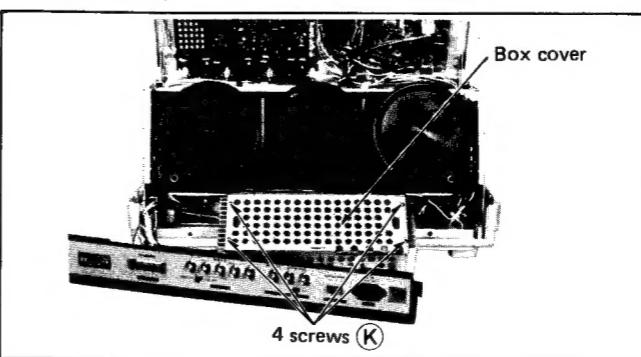


Fig. 11

5. HOW TO REMOVE THE PROJECTOR TUBE (WHEN RED)

- 1) Remove the two retaining 2 screws **(L)** from the tube shown in fig. 12.
- 2) Remove the lens grill shown in fig. 3. (Remove 4 screws **(B)**).
- 3) Remove the anode lead **(M)** from the high voltage distributor shown in fig. 13.
- 4) Remove the LR printed circuit board **(N)** in fig. 13.
- 5) Remove the retaining screw of the neck shield **(O)** and remove the neck shield **(P)** in fig. 13.
- 6) Remove the retaining screw of the deflecting coil **(Q)** and draw out the centering magnet **(R)** and the deflecting coil **(S)** in fig. 13.
- 7) Remove the grounding lead from the tube.
- 8) Remove the 4 retaining screws **(T)** from the tube and draw it out shown in fig. 14.

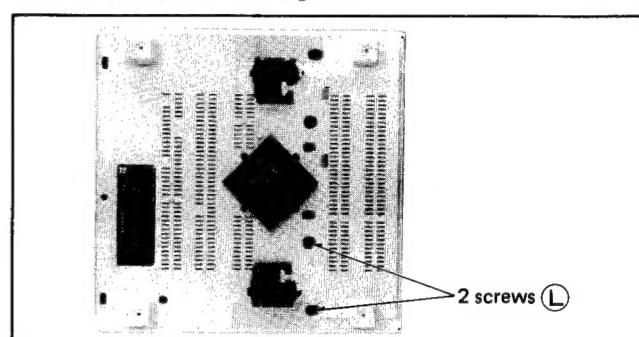


Fig. 12

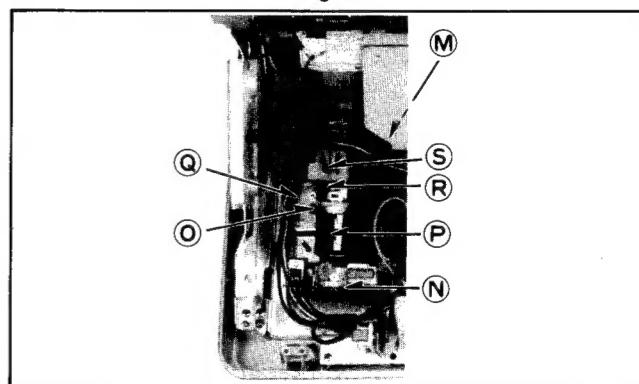


Fig. 13

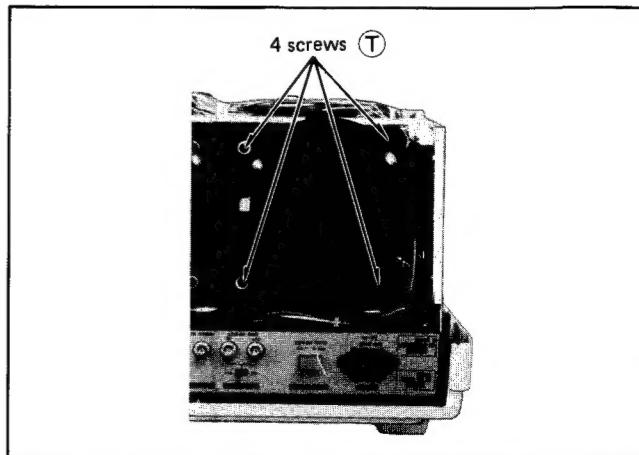


Fig. 14

MAIN PARTS LOCATION CHART

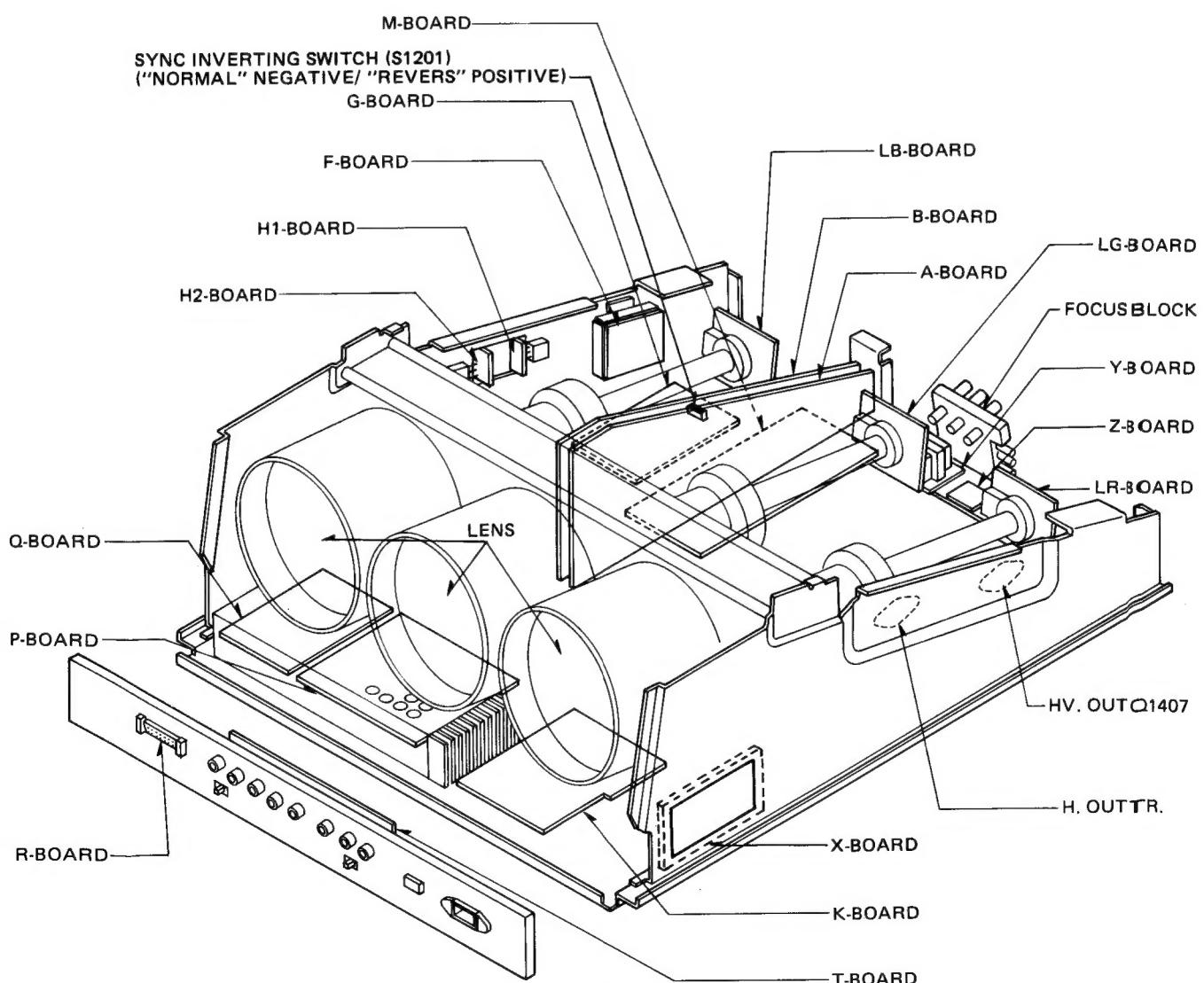
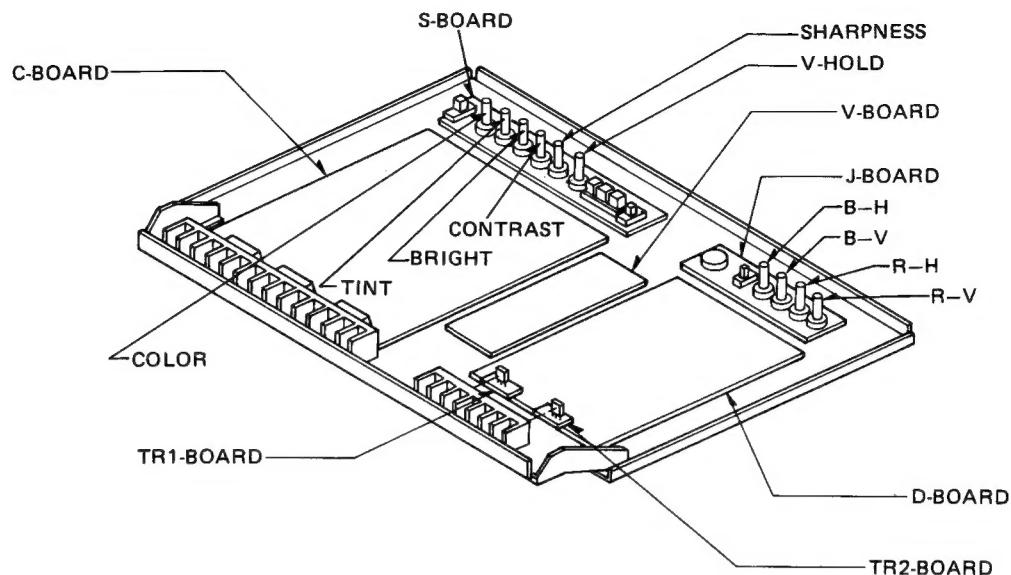


Fig. 15

CAUTIONS FOR SERVICING

HORIZONTAL OSC. DISABLE CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

- With the chassis case removed, supply a nominal 120V AC to the set, and turn the set on..
- Set the customer controls to normal operating positions.
- Locate Q1404 and short it's collector to the emitter with a jumper wire. Confirm that this shorts the high voltage and that the raster disappears.
- If this does not occur, the Horizontal Osc. Disable Circuit is not operating. Follow the Horizontal Oscillator Disable Circuit Repair Procedures before the set is returned to the customer.

NOTE: The power on/off switch must be turned off and then on to restore operation.

REPAIR PROCEDURES OF THE HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- Connect a DC voltmeter between capacitor C1413 + on the D-PCB and chassis ground. If approximately 150V is not present at that point find the cause. Check R535, R591, R1430, R534, C1413 and D1408.
- Connect a DC voltmeter between capacitor C518 + on the C-PCB and chassis ground. C518 + potential varies from nearly 0V approx to nearly 4V approx when shorting Q1404 (C-E). If this does not occur, find the cause. Check R530, R531, R537, R538, R539, R540, R541, R542, R543, R544, C513, C518, C519, C520, D507, Q510, Q511 and Q512.
- Carefully check the above specified parts and related circuits and parts. When the circuit is repaired, try the Horizontal Oscillator Disable Circuit Test again.
- In case that at least one of R535, R591, R534, D507, and the FBT is replaced follow the Adjustment Procedure for the Horizontal Oscillator Disable Circuit as follows.

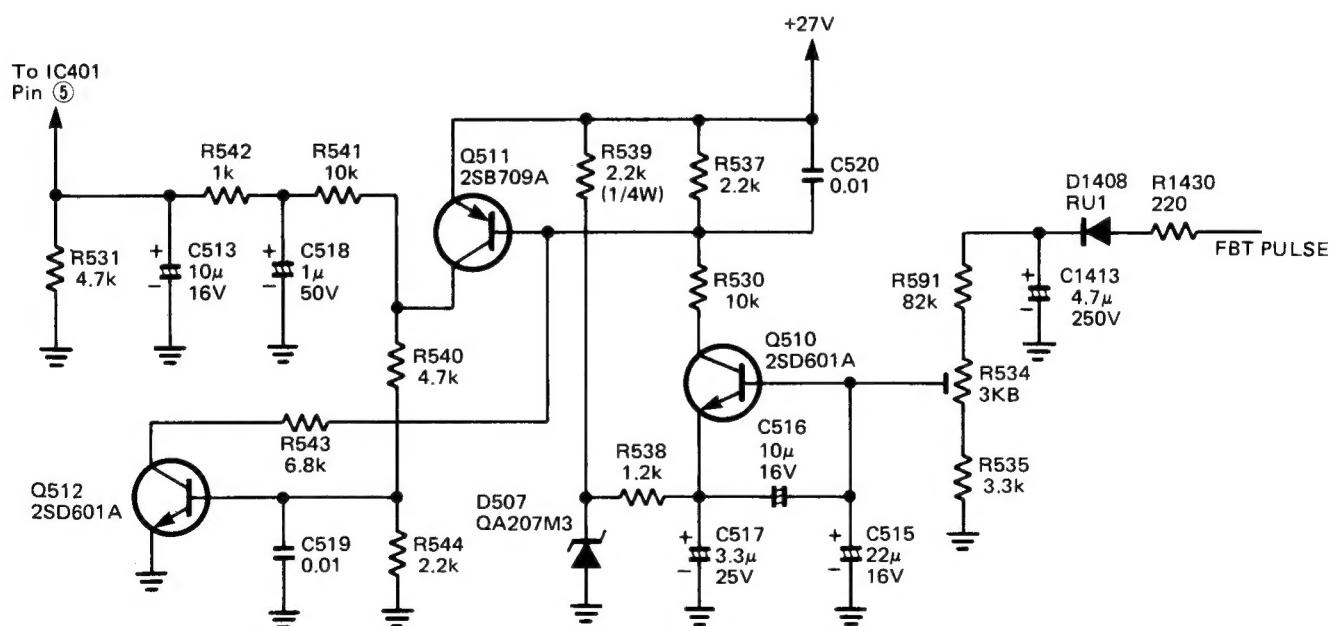


Fig. 16

ADJUSTMENT PROCEDURE OF THE HORIZONTAL OSCILLATOR DISABLE CIRCUIT

Replace R534 (Protector Adj.) and R1419 (HV Adj.) before this adjustment. But R534 (Protector Adj.) and R1419 (HV Adj.) are only manufactures specified parts.

- Set the following controls at the position indicated.

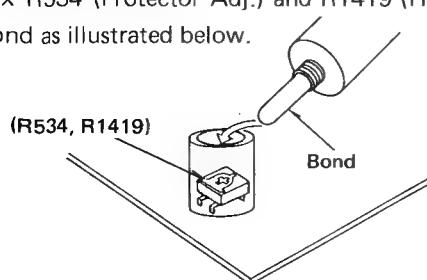
Input Selector SW. (S3003) LINE
TV-System Selector SW. (S8002) AUTO
Impedance Selector (75/HIZ) SW. (S1) HIZ
R1419 (HV Adj.) Fully clockwise
R534 (Protector Adj.) Fully Counter-clockwise
Connect the \oplus (positive) side of DC voltage meter to **TPD1** and \ominus (negative) side to **TPD2** on D-PCB.

- Connect the high voltage meter to anode lead of the distributer as shown in Fig. 17.
- Turn on the Power Switch, and receive a monoscope pattern signal.
- Connect a short jumper between **TPM1** and **TPM2**.
- Adjust R1419 (HV Adj.) the Brightness control and the Contrast control to obtain ($33.5 \text{ kV} \pm 0.3 \text{ kV}$) on the high-voltage meter, and obtain ($1.8\text{V} \pm 0.05\text{V}$) on the voltage meter.

CAUTION:

Use only a Static Type of High Voltage Meter which has a 5% tolerance at 40 kV.

- Adjust R534 (Protector Adj.) slowly clockwise until shut-down occurs and hold that position.
- Turn off the power switch.
- Adjust R1419 (HV Adj.) slightly clockwise.
- Turn on the power switch.
- Adjust R1419 (HV Adj.) slowly counter-clockwise until shut-down occurs High voltage should be $33.5 \text{ kV} \pm 0.5 \text{ kV}$, and $1.8\text{V} \pm 0.05\text{V}$ on the voltage meter just before shut-down.
- If the readings in step 10 are not confirmed, repeat steps 5, 6 and 7 again.
- Turn off the power switch.
- Disconnect the short jumper between **TPM1** and **TPM2**.
- Set the 75/HIZ selector SW. (S1) to 75Ω.
- Turn on the power switch, and confirm that the high voltage is $32.0 \text{ kV} \pm 0.5 \text{ kV}$.
- Confirm that the high voltage does not change by turning of the Brightness and Contrast controls.
- Fix R534 (Protector Adj.) and R1419 (H.V Adj.) with bond as illustrated below.



DISCONNECTION OF ANODE LEAD FROM THE DISTRIBUTER

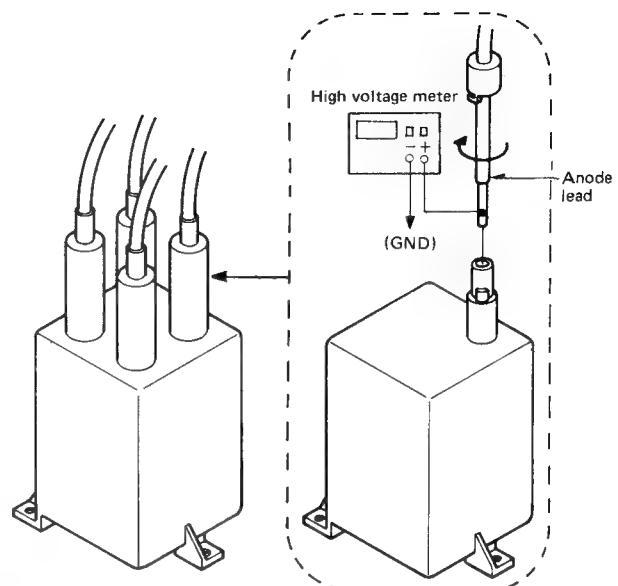


Fig. 17

X-RAY PRECAUTIONS

The front area (between the projection tube and the lens) is enclosed by a metal box to ensure positive safety during abnormal and normal conditions when checking and doing repair work. To fully ensure safety, however, the following precautions must be observed.

- (1) Do not remove the lens.
- (2) Be sure to turn OFF the power when the lens must be removed and when you could be exposed to X-rays during cleaning and other routine servicing.
- (3) Do not remove the lens to check the projection tube for operation by watching it directly.
- (4) Do not remove the LEAD TAPE on the CRTs.
- (5) Do not remove the METAL COVER on the CRTs.

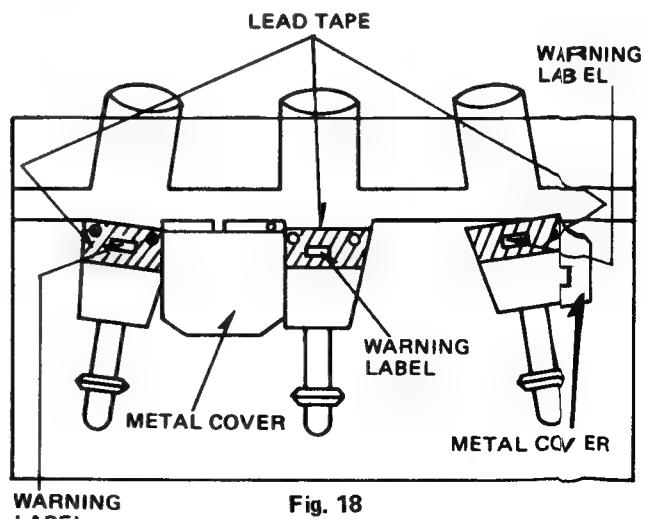


Fig. 18

FIELD ADJUSTMENTS

Note: 1. When a screwdriver is needed during adjustment, use a non-metallic screwdriver to prevent unexpected short-circuits.

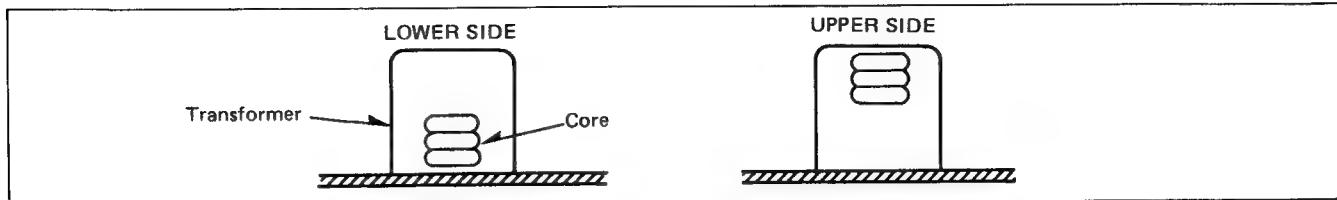


Fig. 19

1. DC VOLTAGE CONFIRMATION

- 1) Set the following controls at the positions indicated.
Brightness control VR (R3009) Minimum
Contrast control VR (R3011) Minimum
- 2) Connect a DC voltmeter between each Test Point and **TPC2** (earth).
- 3) Check below for the indicated test points and their specified voltages. (See Table 1)

Test Points	Voltage
Pin ③ of connector D14	115.5V \pm 1.0V
Pin ⑥ of connector C4	115.5V \pm 1.0V
Pin ⑤ of connector C4	26V \pm 1.0V
Pin ② of connector C4	17V \pm 1.0V
Pin ③ of connector C4	-17V \pm 1.0V
TPM1	12V \pm 0.5V

Table 1

2. HORIZONTAL CIRCUIT ADJUSTMENT

- 1) Set the following controls at the positions indicated.
Input Signal Selector SW. (S3003) VIDEO
TV-System Selector SW. (S8002) AUTO
G/EXT Sync Selector SW. (S2) Ext. Sync
NTSC H. Hold control VR (R520) Centre
PAL/SECAM H. Hold control VR (R519) Centre
RGB Horizontal Hold VR (R523) Centre
Brightness control VR (R3009) Centre
Contrast control VR (R3011) Centre
- 1)-1. Connect a Resistor Jumper ($10k\Omega$) between **TPB5** and **TPB11**.
- 1)-2. Connect a Jumper between **TPB10** and earth.

- 2) Transformer core position. (Application for both Field Adjustment and General Alignment.) Unless otherwise noted, a transformer core which has two tuning peak points should be adjusted at the lower position as shown in Fig. 19.

2) VIDEO MODE NTSC

1. Receive a monoscope pattern signal (NTSC).

2. Connect a capacitor ($1\mu F/50V$) between **TP31** and earth.
3. Adjust the NTSC H. Hold control VR (R520) to stabilize the picture.

3) VIDEO MODE (PAL/SECAM)

1. Receive a Phillips pattern signal (PAL).

2. Connect a capacitor ($1\mu F/50V$) between **TP31** and earth.
3. Adjust the PAL/SECAM H. Hold control VR (R519) to stabilize the picture.

4) RGB MODE

1. Set the Input Signal Selector SW. (S3003) to the RGB position.
2. Receive an RGB signal from an RGB signal generator. (The horizontal frequency of the RGB signal should be in $15.750 \text{ kHz} \pm 0.25 \text{ kHz}$ range.).
3. Connect a capacitor ($1\mu F/50V$) between **TP31** and earth.
4. Adjust the RGB H. Hold control VR (R523) to stabilize the picture.

3. SUB CONTRAST ADJUSTMENT (1)

- 1) Set the following controls at the position indicated.
Colour control VR (R3002) Minimum
Sub Contrast control VR (R353) Centre
- 2) Receive an colour bar signal.
- 3) Connect an oscilloscope between **TPA14** and earth.
- 4) Adjust Sub Contrast control VR (R353) to achieve $0.7V \pm 0.05V$ on the oscilloscope as shown in Fig. 20.

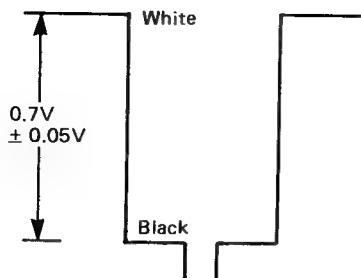


Fig. 20

4. SUB CONTRAST ADJUSTMENT (2)

- 1) Set the following controls at the positions indicated.
 - Brightness control VR (R3009) Minimum
 - Sub Brightness control VR (R1107) Center
 - Colour control VR (R3002) Minimum
 - Contrast control VR (R3011) Maximum
 - Sub Contrast control VR (R1103) Centre
- 2) Receive an NTSC colour bar signal.
- 3) Remove the D11 connector. (D-PCB).
- 4) Connect an oscilloscope between **TPB7** and earth.
- 5) Adjust Sub Contrast control VR (R1103) to achieve $2.5V \pm 0.2V$ on the oscilloscope as shown in Fig. 21.
- 6) Set Power switch to OFF position and insert the D11 connector.

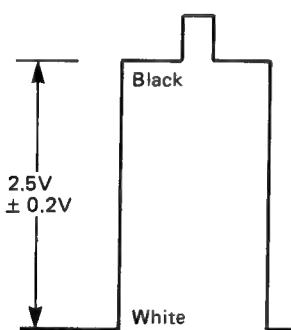


Fig. 21

5. VERTICAL LINEARITY ADJUSTMENT

- 1) Set the following controls and switches at the positions indicated.
 - Input signal Selector SW. (S3003) VIDEO
 - TV-System Selector SW. (S8002) AUTO
 - Brightness control VR (R3009) Click Stop
 - Contrast control VR (R3011) Maximum
 - Vertical Linearity control VR (R442) Centre
- 2) Receive an PAL Phillips pattern signal.
- 3) Adjust the Vertical Linearity control VR (R442) until the circle of the pattern is symmetrical from top to bottom (real circle).

6. VERTICAL HEIGHT ADJUSTMENT

Note: At the 300 inch size.

- 1) Set the following controls and switches at the positions indicated.
 - Input Signal Selector SW. (S3003) VIDEO
 - TV-System Selector SW. (S8002) AUTO
 - G/EXT Sync Selector SW. (S2) Ext. Sync.
 - Video V-Size control VR (R428) Centre
 - NTSC Sub V-Size control VR (R432) Centre
 - RGB V-Size control VR (R437) Centre
 - Brightness control VR (R3009) Click Stop
 - Contrast control VR (R3011) Maximum

2) **VIDEO MODE**

1. Receive a PAL Phillips pattern signal.
2. Adjust the Video V-Size control VR (R428) to achieve a pattern height of 3261 mm.
3. Set the Input Signal Selector SW. (S3003) to VIDEO and receive an NTSC monoscope pattern signal.
4. Adjust the NTSC Sub V-Size control VR (R432) to achieve a pattern height of 3261 mm.

3) **RGB MODE**

1. Set the Input Signal Selector SW. (S3003) to RGB.
2. Receive an RGB signal from an RGB signal generator.
3. Adjust the RGB V-Size control VR (R437) to achieve a pattern height of 3261 mm.

7. HORIZONTAL WIDTH ADJUSTMENT

Note: At the 300 inch size.

- 1) Set the following controls and switches at the positions indicated.
 - Input Signal Selector SW. (S3003) VIDEO
 - TV-System Selector SW. (S8002) AUTO
 - G/EXT Sync Selector SW. (S2) Ext. Sync.
 - Video H-Size control VR (R1541) Centre
 - RGB H-Size control VR (R1536) Centre
 - Brightness control VR (R3009) Click Stop
 - Contrast control VR (R3011) Maximum

2) **VIDEO MODE**

1. Receive an PAL Phillips pattern signal.
2. Adjust the Video H-Size control VR (R1541) to achieve a pattern width of 4348 mm.

3) RGB MODE

1. Set the Input signal selector SW. (S3003) to RGB.
2. Receive an RGB signal from an RGB signal generator.
3. Adjust the RGB H-Size control VR (R1536) to achieve a pattern width of 4348 mm.

8. RASTER GEOMETRIC ADJUSTMENT

- 1) Set the following controls and switches at the positions indicated.

Input Signal Selector SW. (S3003) VIDEO
 Brightness control VR (R3009) Click Stop
 Contrast control VR (R3011) Maximum
 Red, Blue Static convergence controls
 VR (R8001 ~ R8004) Centre
 Green Static convergence controls
 VR (R7005, R7006) Centre
 Red, Blue Dynamic convergence controls VR (R871,
 R873, 876, 878, 880, 882, 884, 885, 887, 890, 892,
 R894, 896, 898, 900, 901, 904, 905, 909, 911, 913,
 R915, 917, 919, 921, 923, 924, 926, 928, 930, 932,
 R935, 937, 939, 941, 943, 7012, 7013) Centre
 Red, Blue Top and Bottom Pincushion
 compensation VRs (R870, R907) Centre
 Green Top and Bottom Pincushion
 Compensation VR (R788) Centre
 T/B incusion Waveform Adjustment
 VRs (R955, R958, R7036) Centre
 TV-System Selector SW. (S8002) AUTO
 2) Receive an NTSC cross hatch pattern signal.
 3) Connect an oscilloscope between **TPC5** and earth.
 4) Adjust R955, R958 and R7036 to achieve maximum amplitude and confirm that both side of the bow tie pattern are symmetrical (A, B in Fig. 22).

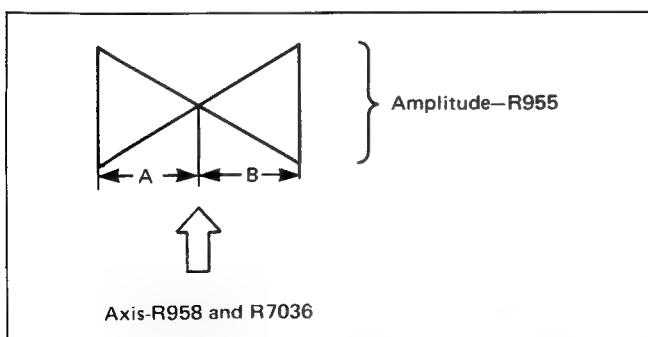


Fig. 22

- 5) Disconnect oscilloscope from **TPC5**.
- 6) Connect an oscilloscope between **TPC1** and **TPC2** (earth).
- 7) Adjust R787 and R791 to achieve the correct waveform as shown in Fig. 23.
 - a. Both sides of bow tie wave should be symmetrical.
 - b. Peak points should be at the same level.

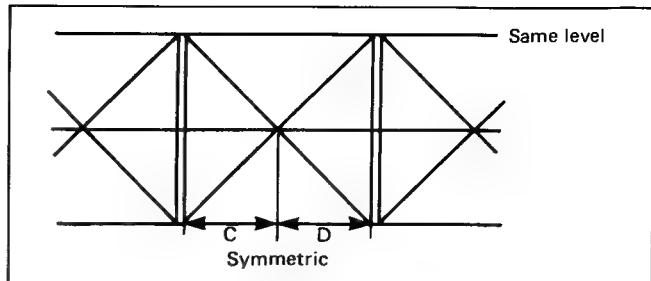


Fig. 23

- 8) Cover the Red and Blue lenses with lens covers.
- 9) Adjust Green Top and Bottom Pincushion Compensation VR (R788) to obtain straight horizontal Green lines from top to bottom.
- 10) If adjusting R788 is insufficient, adjust R7036, R958 and R788 accordingly by the following procedures.
 (Refer to Fig. 24-A, 24-B).

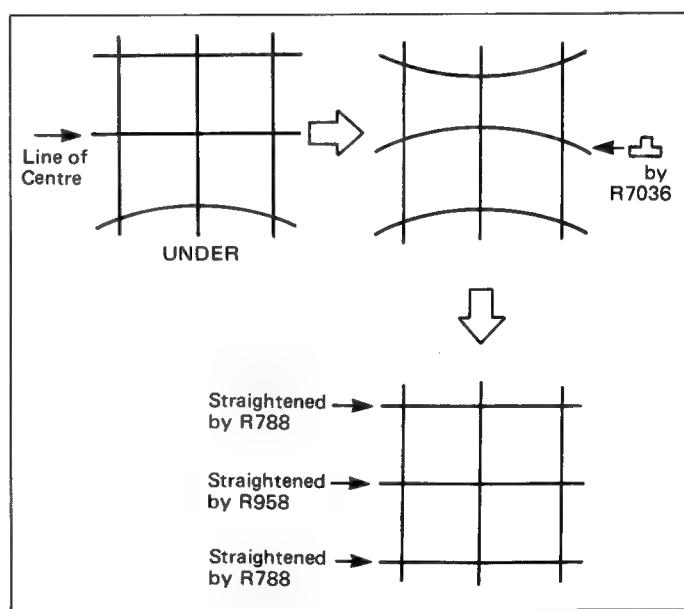


Fig. 24-A

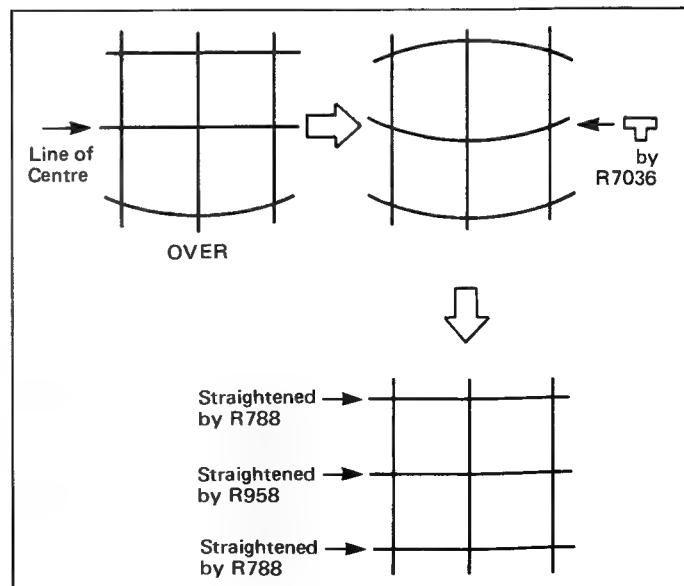


Fig. 24-B

11) Adjust R745 to get straight horizontal lines from top to bottom as shown in Fig. 25.

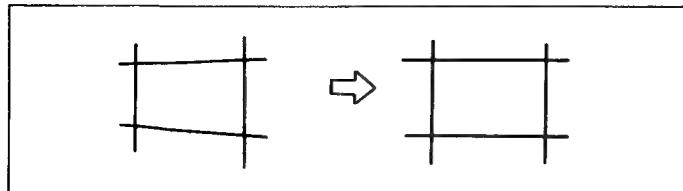


Fig. 25.

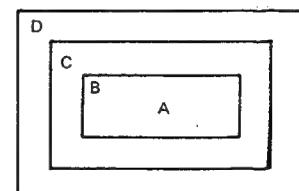
9. CONVERGENCE ADJUSTMENT

- 1) Demagnetize the chassis and CRTs using a degaussing coil.
- 2) Adjust all three deflection yokes to converge all horizontal lines at the centre of the screen. Deflection yokes be inserted all the way towards the front side of the CRT.
- 3) Adjust each centring magnet to set the pattern centre to at the geometric centre of the screen.

- 4) Readjust the deflection yoke if any of the horizontal lines ate tilted.
- 5) Receive an RGB signal and turn on the TEST SW. (S8001).
- 6) Cover the Blue lens with the lens cover.
- 7) Adjust the convergence as follows.
- 8) The following controls are located on the convergence control board.
- 9) Adjust each of the red convergence adjustment controls in the order of the instructions ⑤ to ⑯ in the figure so that the red pattern matches the green pattern.
- 10) Remove the lens cover from the Blue lens and cover the Red lens.
- 11) Adjust each of the blue convergence adjustment controls in the order of the instructions ⑯ to ⑰ in the figure so that the blue pattern matches the green pattern.
- 12) Return the red CRT to operation.

Order of Adjustment VR'S					Function of Adjustment VR'S				
G	B-H	B-V	R-H	R-V	G	B-H	B-V	R-H	R-V
MAIN					MAIN				
1	27	26	6	5	R788	R928	R907	R892	R870
2	30	32	9	11	R7011	R930	R908	R894	R871
3	31	33	10	12	R644	R932	R911	R896	R873
4	34	28	13	7	R745	R935	R913	R898	R876
	35	29	14	8	R937	R915	R900	R890	R878
SUB1					SUB1				
B-H	40	36	19	15	R939	R917	R901	R880	
	46	41	37	20	R7024	R919	R904	R882	
R-H	25	42	38	21	R941	R921	R905	R884	
		43	39	22	R7203	R943	R923	R890	R885
G-STATIC					G-STATIC				
48	47	45	44	24	R7006	R7005	R924	R7013	R887
									R7012

CONVERGENCE LIMITS :
(in mm from centre of raster centre)



Inch Zone	150	170	200	250	300
A	1.2	1.3	1.6	2.0	2.4
B	10.5	11.6	14	17.5	21
C	18	20.0	24	30	36
D	18	20.0	24	30	36

[mm]

10. GK DRIVE ADJUSTMENT

- 1) Set the following controls at the position indicated.
Brightness control VR (R3009) Click Stop
Colour control VR (R3002) Minimum
Contrast control VR (R3011) Maximum
- 2) Remove the D11 connector (D-PCB).
- 3) Receive an NTSC colour bar signal.
- 4) Connect the oscilloscope between **TPLG1** and earth.
- 5) Adjust Brightness control VR (R3009) to control the black level, less than B+ (205V) level.
- 6) Adjust G-Drive control VR (R1801) to achieve $130V \pm 3V$ as shown in Fig. 26.

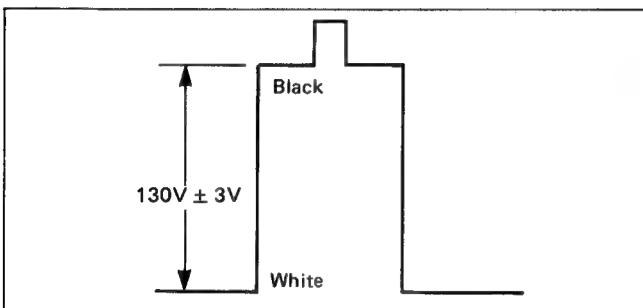


Fig. 26

- 7) Set Power switch to OFF position and insert the D11 connector.

11. CUT OFF ADJUSTMENT

- 1) Set the following controls at the positions indicated.
Colour control VR (R3002) Minimum
Brightness control VR (R3009) Click Stop
Screen VR (FOCUS SCREEN VR) Minimum
- 2) Receive an NTSC colour bar signal.
- 3) Set Service switch (S10) to Service position.
- 4) Connect oscilloscope to **TPLG1** and earth.
- 5) Adjust Sub Contrast control VR (R353) such that voltage meter reading is $182V \pm 2V$ at the horizontal scanning period.

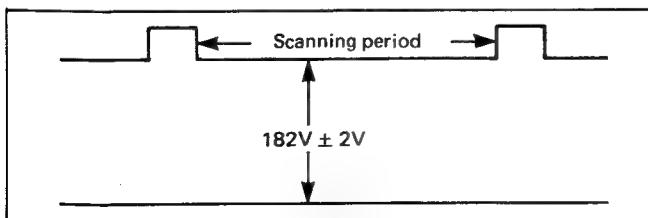


Fig. 27

12. WHITE BALANCE ADJUSTMENT

Note: Do not adjust Focus screen VR (G) and G drive VR (R1801).

- 1) Receive an white pattern signal.
- 2) Set service switch (S10) to the SERVICE position.

- 3) Set the Focus screen VR (R/B) to the minimum position.
- 4) Adjust Brightness control VR (R3009) so that the picture tube (G) becomes faint light.
- 5) Set service switch (S10) to the NORMAL position and adjust high light, white balance with R drive VR (R1701) and B drive VR (R1901) controls.

13. SUB BRIGHTNESS ADJUSTMENT AND ABL CONFIRMATION

- 1) Set the following controls at the positions indicated.
Brightness control VR (R3009) Click Stop
Contrast control VR (R3011) Minimum
Sub Brightness control VR (R1107) Minimum
- 2) Connect a digital voltmeter between **TPD1** (+) and **TPD2** (-).
- 3) Receive a monoscope pattern signal.
- 4) Adjust the Sub Brightness control VR (R1107) to achieve $500\text{ mV} \pm 15\text{ mV}$.
- 5) Set Brightness VR (R3009) and Contrast VR (R3011) controls to maximum then confirm that $1.5V \pm 0.1V$ is present between **TPD1** and **TPD2**.

14. PAL APC ADJUSTMENT

- 1) Set the following controls at the position indicated.
Colour control VR (R3002) Maximum
R651 (SECAM DL Adj.) Centre
- 2) Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an oscilloscope between **TPA10** and chassis GND.
- 4) Adjust PAL APC ADJ. (R619) to achieve waveform shown in Fig. 28.

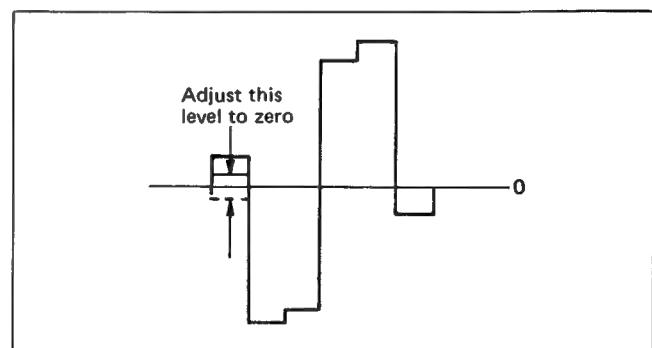


Fig. 28

15. PAL DELAY LINE ADJUSTMENT

- 1) Set the following control at the position indicated.
Colour control VR (R3002) Maximum
- 2) Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an oscilloscope between **TPA12** and chassis GND.

4) Adjust Delay Line Adj. VR (R633) and Delay Line Matching Trans. (L617) to achieve waveform shown in Fig. 29.

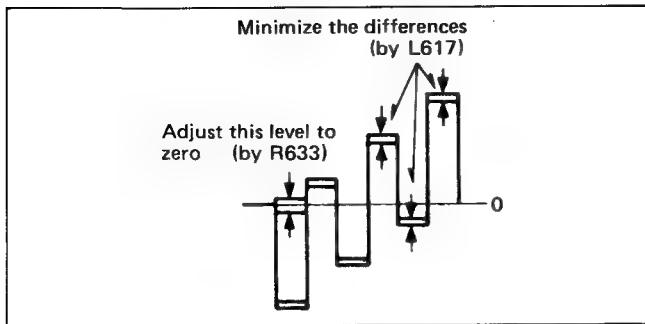


Fig. 29

16. PAL COLOUR OUTPUT ADJUSTMENT

- 1) Set the following control at the position indicated.
Colour control VR (R3002) Maximum
- 2) Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an oscilloscope between TPA12 and chassis GND. When adjust Sub colour VR (R629) to achieve $1.8V \pm 0.1V_{p-p}$ on the oscilloscope as shown in Fig. 30
- 4) Connect an oscilloscope between TPA10 and chassis GND. When confirm that the waveform level is $2.2V \pm 0.5V_{p-p}$ on the oscilloscope as shown in Fig. 30.

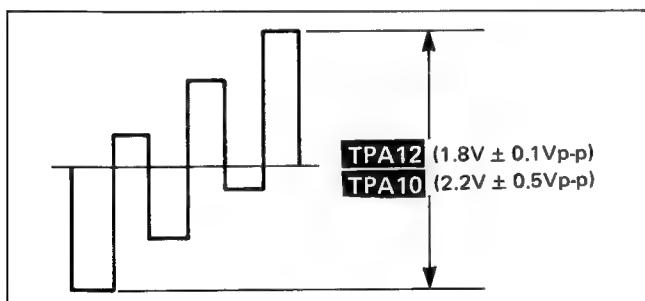


Fig. 30

17. NTSC APC ADJUSTMENT

Note: Before making this adjustment, PAL APC adjustment must be completed.

- 1) Set the following control at the position indicated.
Colour control VR (R3002) Maximum
Tint VR (R3006) Fully clockwise
- 2) Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an electronic voltmeter to TPA6 and memorize indication of the electronic voltmeter.
- 4) Change signal PAL colour bar pattern into NTSC rainbow colour bar pattern and Input signal selector SW. (S3003) to the NTSC position.
- 5) Adjust C613 to obtain the value specified in item 4) within a tolerance $\pm 0.1V$.

18. 3.58 NTSC COLOUR OUTPUT

- 1) Set the following control at the position indicated.
Colour control (R3002) Maximum
- 2) Receive an NTSC rainbow colour bar signal and set the Input signal selector SW. (S3003) to the NTSC position.
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND. When confirm that the waveform level is $0.7V \pm 0.2V_{o-p}$ on the oscilloscope.
- 4) Disconnect oscilloscope from TPA12 (B-Output) and connect oscilloscope to TPA10 (R-Output).
When confirm that the waveform level is $0.6V \pm 0.2V_{o-p}$ on the oscilloscope.
- 5) Disconnect oscilloscope from TPA10 (R-Output) and connect oscilloscope to TPA12 (B-Output).
- 6) Turn Tint control (R3006) and confirm that the variable range is more than 60° .

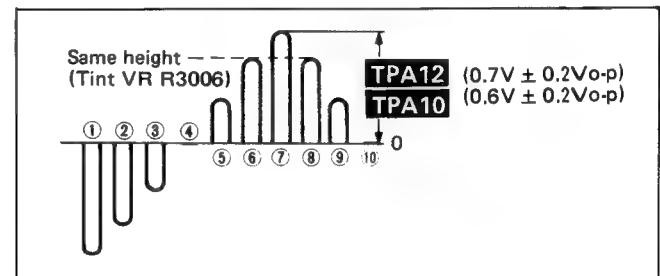


Fig. 31

19. M-NTSC COLOUR OUTPUT

Note: Before making this adjustment, PAL APC adjustment must be completed.

- 1) Set the following control at the position indicated.
Colour control (R3002) Maximum
- 2) Receive an M-NTSC rainbow colour bar signal and set the Input signal selector SW. (S3003) to the M-NTSC position.
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND. When confirm that the waveform level is $0.6V \pm 0.2V_{o-p}$ on the oscilloscope as shown in Fig. 32.
- 4) Disconnect oscilloscope from TPA12 (B-Output) and connect oscilloscope to TPA10 (R-Output).
When confirm that the waveform level is $0.5V \pm 0.2V_{o-p}$ on the oscilloscope as shown in Fig. 32.
- 5) Disconnect oscilloscope from TPA10 (R-Output) and connect oscilloscope to TPA12 (B-Output).
- 6) Turn Tint control (R3006) and confirm that the variable range is more than 60° as shown in Fig. 32.

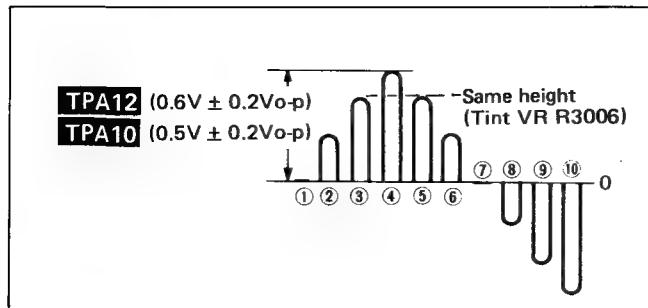


Fig. 32

20. SECAM DELAY LINE ADJUSTMENT

- Set the following control at the position indicated.

Colour control (R3002) Maximum
Adjust R-Y Gain (R646) and B-Y Gain (R659) controls shown in Fig. 33.

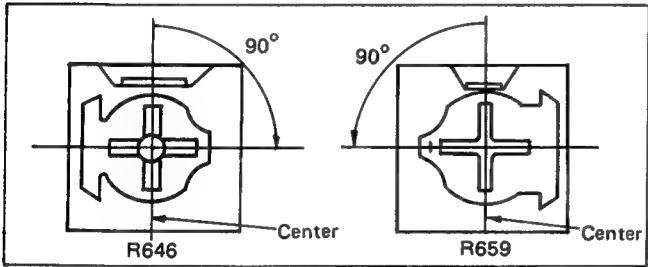


Fig. 33

- Receive an SECAM colour bar signal and set the Input signal selector SW. (S3003) to the SECAM position.
- Connect an oscilloscope between **TPA12** (B-Output) and chassis GND.
- Adjust Delay Line Adj. (R651) and Delay Line Matching Trans. (L619) to achieve waveform shown in Fig. 34.

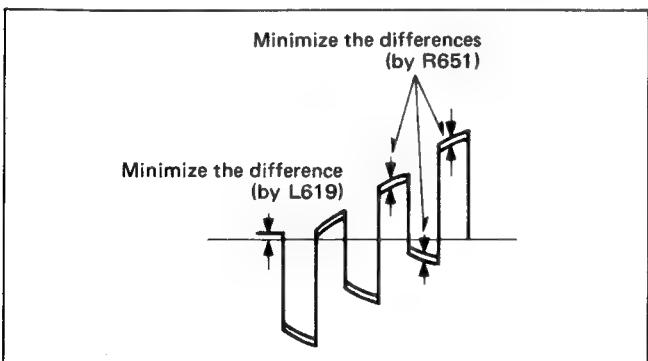


Fig. 34

21. BELL FILTER/LINE DISCRIMINATOR

- Set the following control at the position indicated.
Colour control (R3002) Maximum
- Receive an SECAM colour bar signal and set the Input signal selector SW. (S3003) to the SECAM position.
- Connect an oscilloscope between **TPA12** (B-Output) and chassis GND.
- Adjust L615 to achieve waveform shown in Fig. 35.

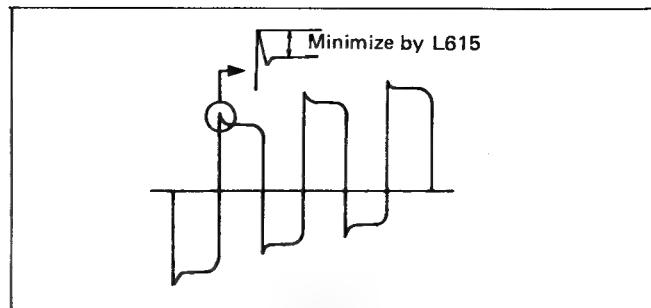


Fig. 35

22. SECAM COLOUR OUTPUT ADJUSTMENT

- Set the following control at the position indicated.
Colour control (R3002) Maximum
- Receive an SECAM colour bar signal.
- Adjust R-Y Gain (R646) and B-Y (R659) controls shown in Fig. 36.

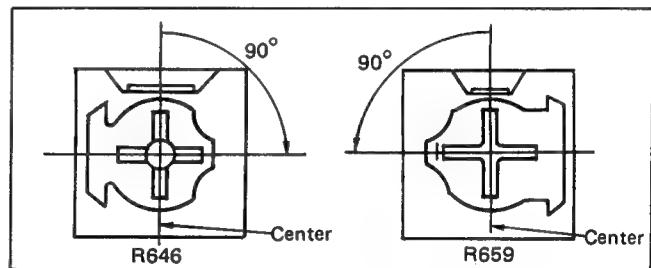


Fig. 36

- Connect an oscilloscope between **TPA12** (B-Output) and chassis GND.
- Adjust R659 and L619 to achieve waveform shown in Fig. 37.

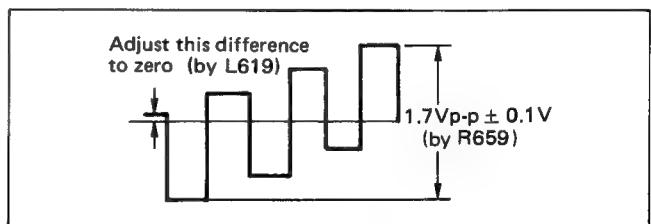


Fig. 37

- Disconnect oscilloscope between **TPA12** (B-Output) and connect oscilloscope to **TPA10** (R-Output).
- Adjust R646 and L611 to achieve waveform shown in Fig. 38.

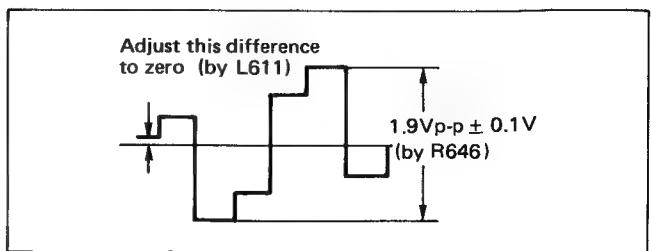


Fig. 38

INSTALLATION/ADJUSTMENT PROCEDURE

The PT-302 is preset for a 5080 mm (200 inch) screen-FRONT CEILING mode.

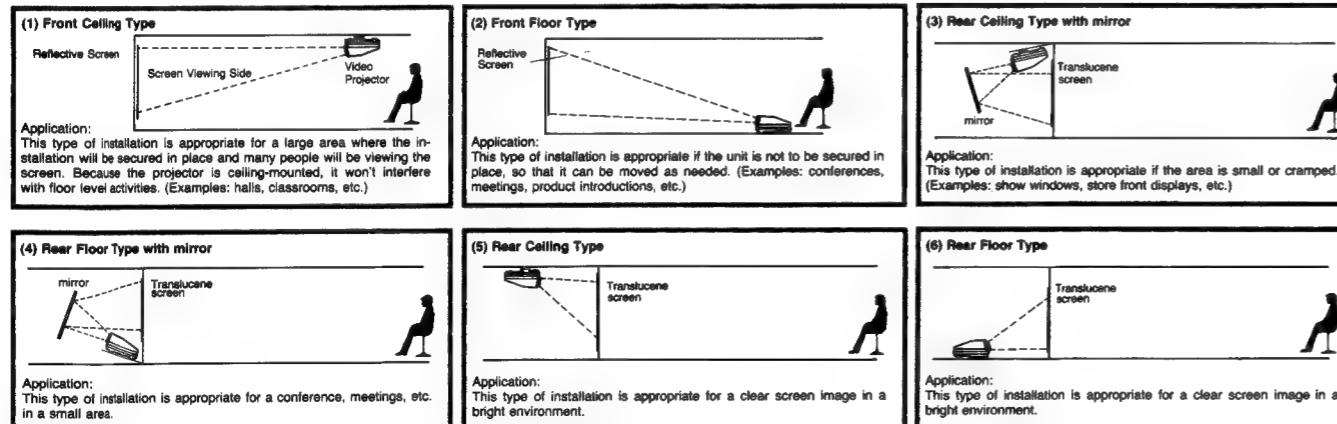
No.	Procedure	CEILING			FLOOR		
		Front	Rear	Rear with mirror	Front	Rear	Rear with mirror
1	Installation	YES	YES	YES	YES	YES	YES
2	Preparation for Adjustment	YES	YES	YES	YES	YES	YES
3	Lens Focus Adjustment	YES	YES	YES	YES	YES	YES
4	Verification of Image Position	YES	YES	YES	YES	YES	YES
5	Deflection Adjustment	NO	YES	NO	YES	YES	YES
6	Green Raster Adjustment	◆	YES	◆	YES	YES	YES
7	Static Convergence Adjustment	YES	YES	YES	YES	YES	YES
8	Dynamic Convergence Adjustment	◆	YES	◆	YES	YES	YES
9	Shading Correction	◆	◆	◆	◆	◆	◆
10	R.G.B Mode Adjustment	◆	◆	◆	◆	◆	◆

◆ If necessary

[Table 2] Projection Mode and Installation/Adjustment Procedure.

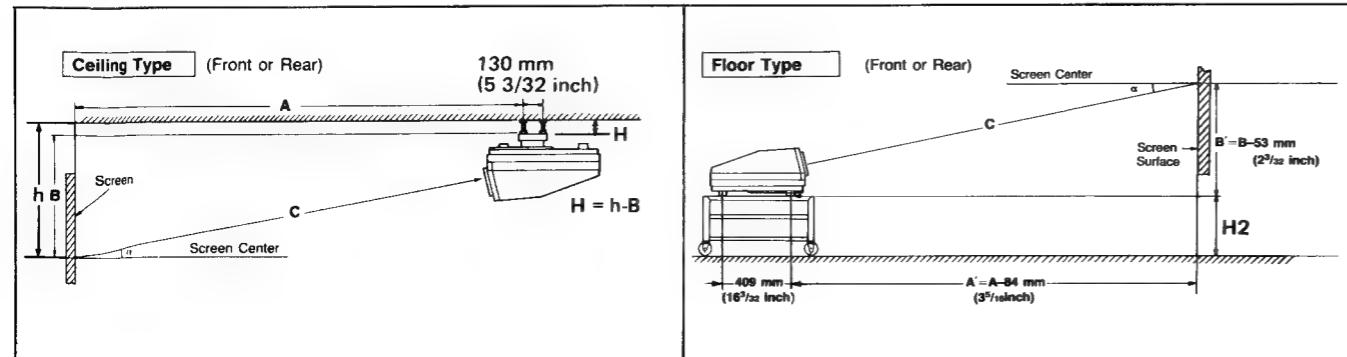
Variations on Standard Installation

There are two fundamental installation methods: floor placement and ceiling mount, and it is easy to change to the desired method. The method should be selected according to the location of the installation and other circumstances, such as using a mirror for indirect projection in cramped locations, or projection from behind the screen, etc.



1. Installation

1-1. Front Ceiling, Front Floor, Rear Ceiling and Rear Floor.



[Table 3] Relationship between picture size and mounting distance.

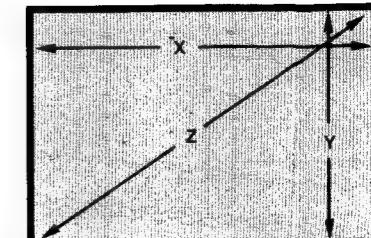
SCREEN SIZE (Z)	WIDTH (X)	HEIGHT (Y)	A	B	C	H ₁	H ₂	α
7620 (300)	6096 (240)	4572 (180)	8720 (343 9/16)	2326 (91 9/16)	8835 (347 27/32)	H ₁ ≥ 120 (42 23/32)	H ₂ ≥ 173 (61 13/16)	13.5°
6350 (250)	5080 (200)	3810 (150)	7325 (288 3/4)	1989 (78 5/16)	7400 (291 11/32)	H ₁ ≥ 50 (13 1/32)	H ₂ ≥ 102 (4)	13.5°
5080 (200)	4064 (160)	3048 (120)	5930 (233 14/32)	1652 (65 1/32)	5963 (234 3/4)	Free size	Free size	13.5°
4318 (170)	3454 (136)	2597 (102)	5094 (200 9/16)	1450 (57 3/32)	5102 (200 7/16)	Free size	Free size	13.5°
3810 (150)	2414 (95 1/16)	1817 (71 9/32)	4536 (178 19/32)	1315 (51 25/32)	4528 (178 1/4)	Free size	Free size	13.5°

Note: Measurement in mm and (inch)

A: Distance from screen to center of hole of the front holding bolt.

B: Distance from mounting plate bottom to center of screen.

C: Distance from screen center to lens surface.



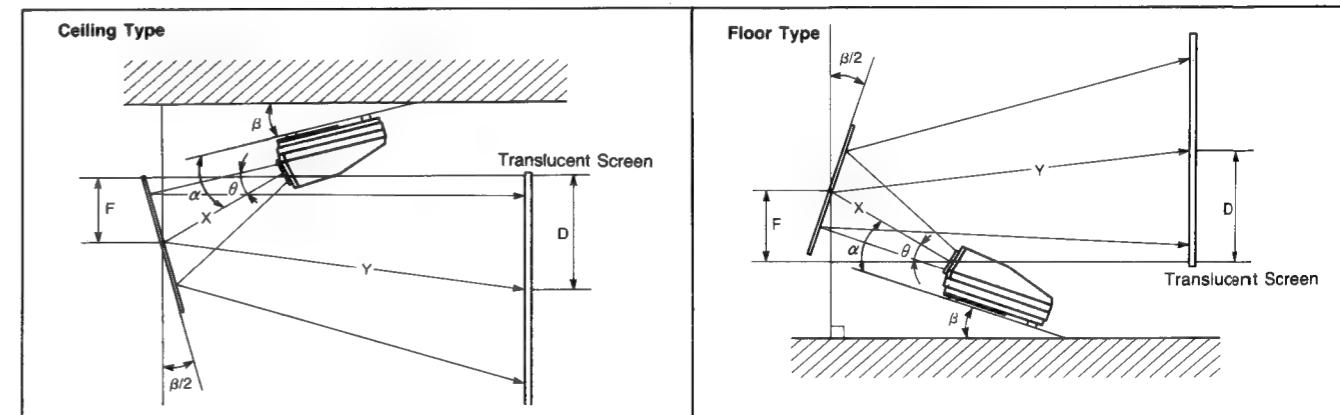
For conventional flat screen
(Aspect ratio 3 x 4)

X: Picture width

Y: Picture height

Z: Diagonal Picture size

1-2. Rear Ceiling or Rear Floor with Mirror



$$X + Y = C$$

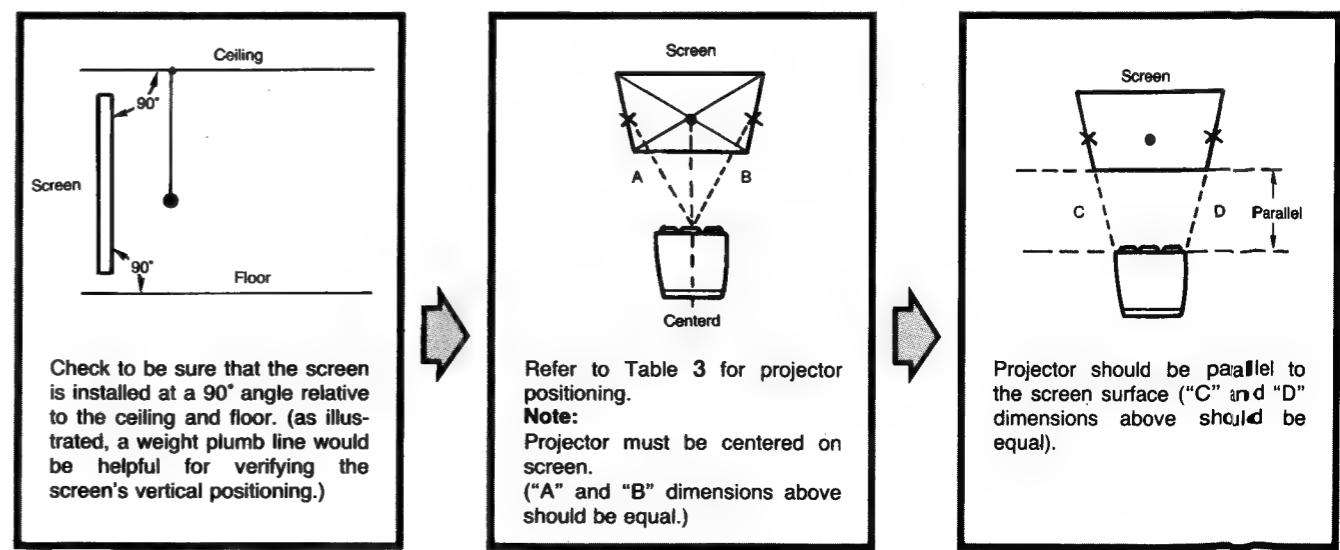
C = Distance from screen center to lens surface.

(Throw Distance)

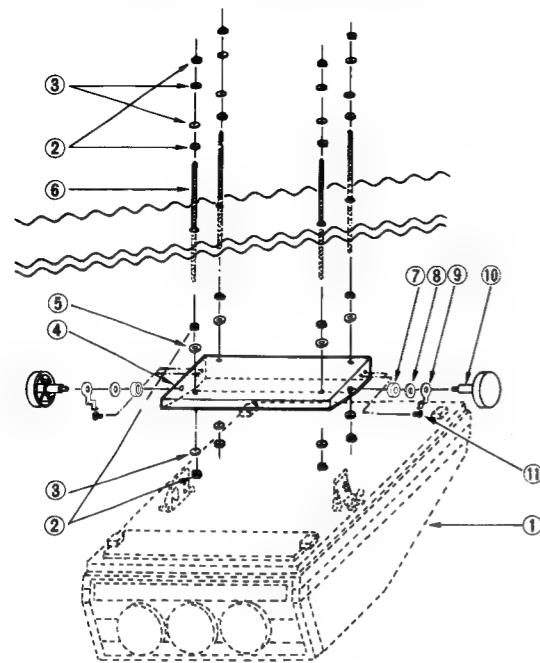
$$F = X \cdot \sin(\alpha + \beta)$$

$$D = Y \cdot \sin \alpha + F$$

1-3. Projector Positioning



1-4. Installation Kit (Ceiling Mount)



No.	Part Name	Part No.	Pcs.
①	Main Unit	—	—
②	M10-Nut	XNG10B	16
③	M10 Washer	XWH10	12
④	Holding Plate	TKR23410	1
⑤	M10 Spring Washer	XWB10B	4
⑥	M10 Holding Bolt	THE600	4
⑦	Ceiling Washer	TKR23520	2
⑧	Washer	THW70023W	2
⑨	Ceiling Stopper Washer	THW70024	2
⑩	Ceiling Bolt	THE758	2
⑪	Tilt Securing Screw	XYN5+E12S	2

1-5. Holding Plate Installation

1. Position of Holding Plate

(1) Decide the distance **A'** between the front holding bolts and the wall which will hold the screen.

$$\text{A}' = 5930 \text{ mm (233 } \frac{15}{32} \text{ inch)} + t \text{ mm.}$$

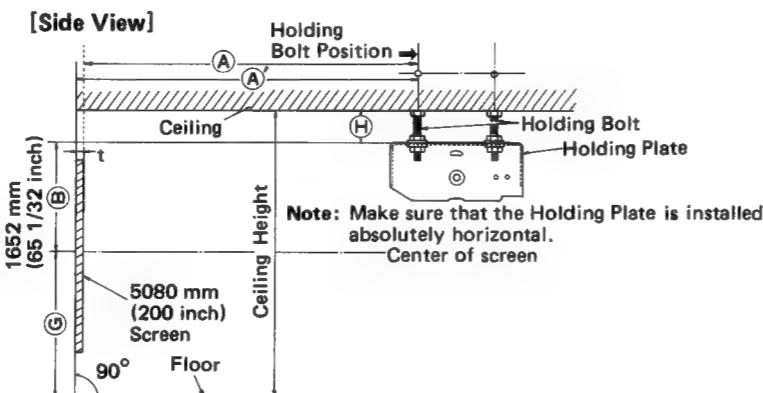
(t: distance between wall and front surface of screen.)

(2) Calculate the distance **H** between the ceiling and the Holding Plate.

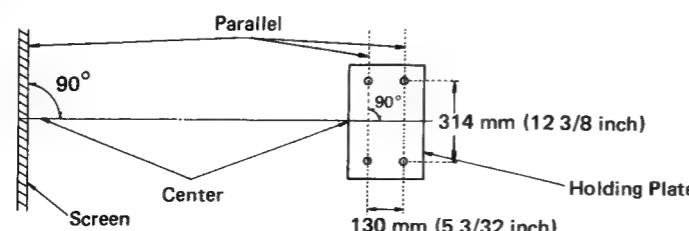
$$\text{H} = \text{ceiling height} - \text{G} - \text{B} \quad 1652 \text{ mm (65 } \frac{1}{32} \text{ inch).}$$

(3) Be careful when positioning the 4 bolts. The holding bolts should be parallel to the screen. Also, the center of the screen should match the center of the holding plate as shown in the figure below.

Example for 5080 mm (200 inch) Picture Size

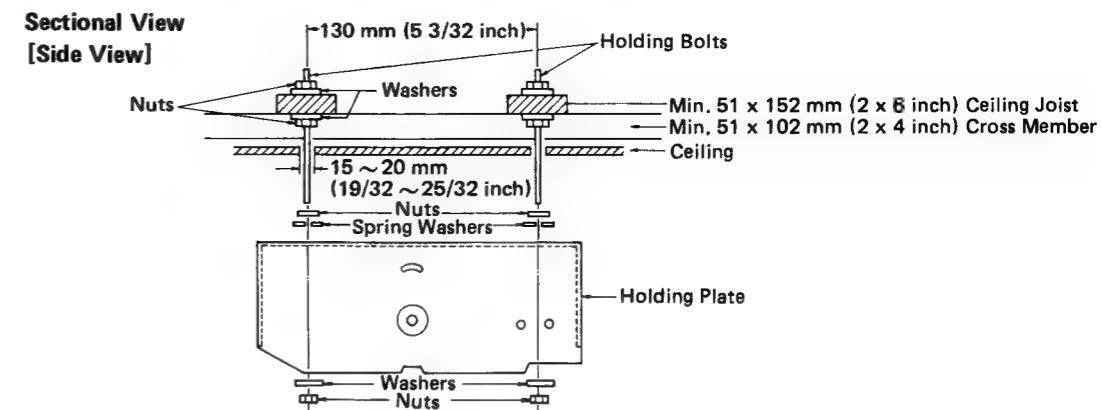


[Top View]

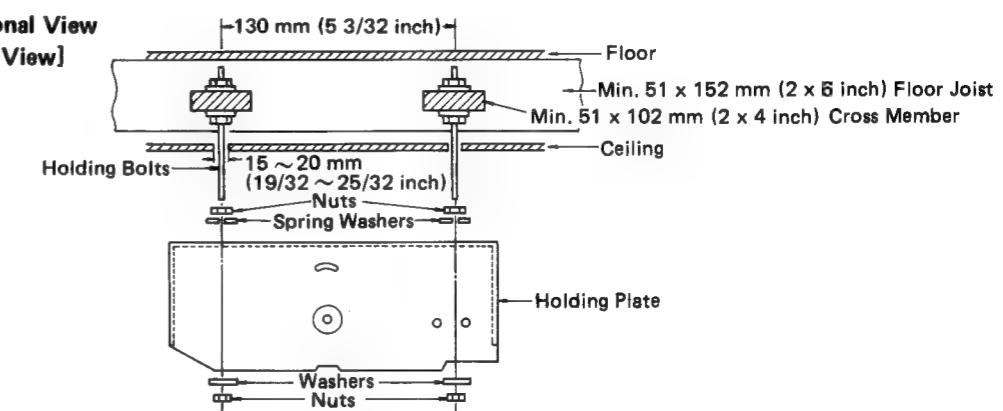


2. Examples of installation in typical wood frame structures

(1) For installation in single-story structure or on the uppermost floor.

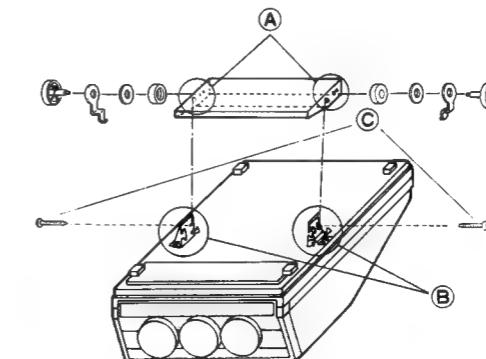


(2) For installation in ceiling other than on the uppermost floor.



3. Main Unit Installation

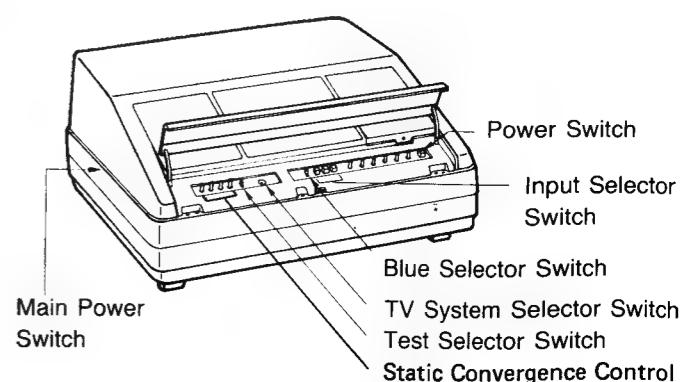
- (1) Raise the PT-302 and hook latch **B** to the Pivot **A** on the Holding Plate.
- (2) Set the tilt angle and secure the unit with screw **C**.



2. Preparation For Adjustment

If the signal input to the Projector is a VIDEO signal, set the signal selector switch to VIDEO; if they are LINE signals, set the switch to LINE; and if they are RGB signals, set the switch to RGB.

- If the REMOTE CONTROLLER is connected, use it to set the signal selector switch (RGB/VIDEO/LINE), and to adjust the **Colour**, the **Tint**, the **Brightness**, the **Contrast** and the **Sharpness**.



3. Lens Focus Adjustment

This operation should only be carried out if there is any difficulty focusing the image. If the focus is adjusted, the convergence will be disturbed and will have to be re-adjusted.

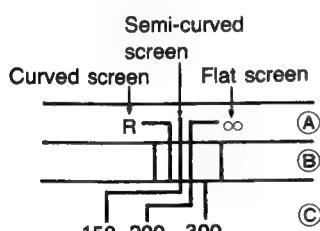
- This unit incorporates a double focus lens newly developed by Panasonic. Therefore, a only one set of lenses is used for the 3810 ~ 7620 mm (150 ~ 300 inch) projection range and peripheral focus adjustment has also become easier.

Adjust the focus in the following manner.

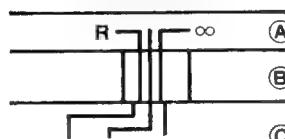
NOTE: Among the three lenses, a red lens and a green lens are common to each other, but since a blue one is different in spectrum, it has no interchangeability with a red and green lens.

METHOD OF ADJUSTING FOCUS

- 1) Select one of the RED, GREEN, or BLUE projection CRTs for adjustment.
(The other two CRTs should be fitted with lens covers.)
- 2) Loosen the wing-nut **D**. (Refer to Fig. 39)
- 3) Turn and adjust the lens so that the indications on **A** and **C** coincide with each other according to the type and size of screen used. **A** shows the type of screen, and **C** shows the screen size. (Refer to Fig. 40)



[Example] For projection on 1829 mm (72 inch)
semi-curved screen



[Fig. 40]

[Fig. 41]

Note: At this time, among the three indents (**B** scale) between **A** and **C**, the indent in the center should be adjusted so that **A** and **C** are connected.

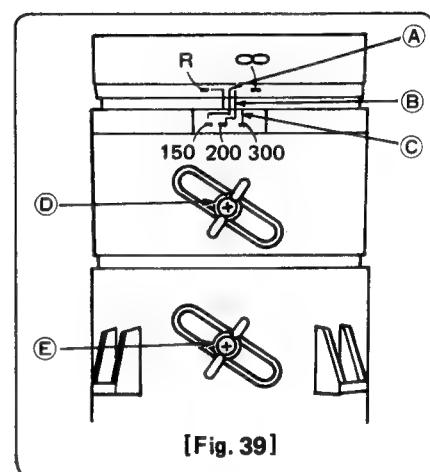
- 4) Fully tighten and secure adjust the wing-nut **D**
- 5) Rotate the lens of the out-of-focus projection CRT after releasing the wing-nut **E** used to fix the projection lens. Adjust the lens to the point at which the scanning lines can be most clearly seen. (other lenses converged)
- 6) Tighten the wing-nut **E** of the projection lens. Then, adjust the two remaining lenses in the same procedure.

Note:

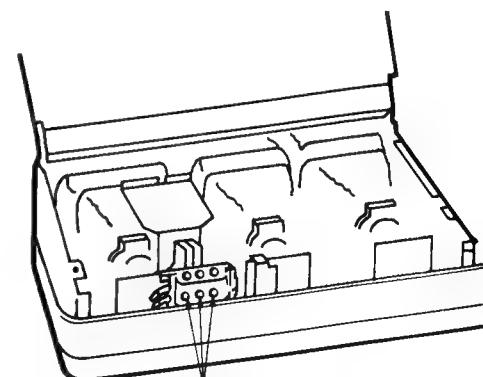
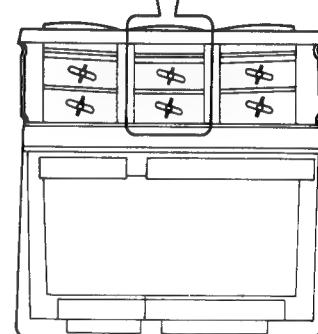
1. If focus can't be obtained by turning the lenses, focus electrically by using the three focus control (black knobs) shown in the Fig. 42. Make the adjustment by looking the image on the CRT surface.
2. If the focus is adjusted there may be some colour divergence. This should be corrected by convergence adjustment.
- 7) Remove all lens covers.

4. Verification of Image Position

Turn ON the unit and any other equipment connected to it, and project an image on the screen. Check that the projected image matches the screen position. If the projected image is either too high or low, or to the right or left of the screen, or if the image is bigger at top or bottom or left or right, there is probably an error in the way the equipment was installed and all dimensions should be carefully rechecked.



[Fig. 39]



focus control
[Fig. 42]

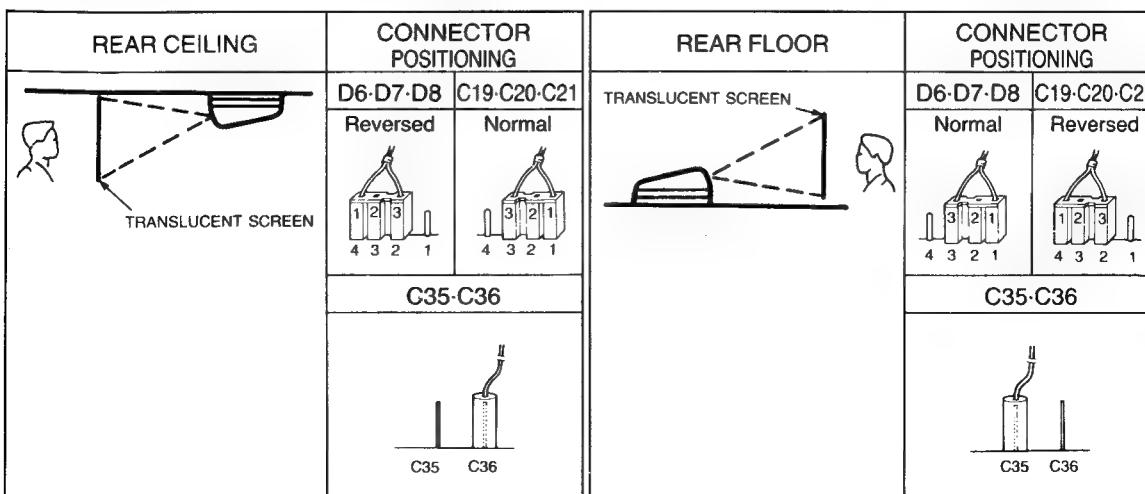
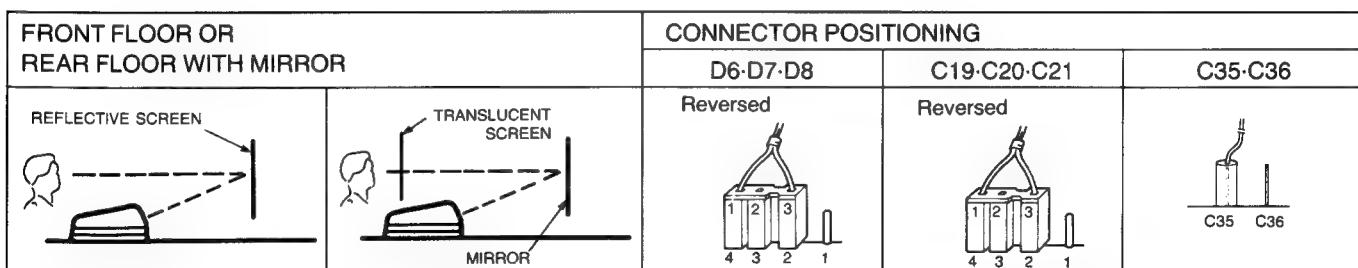
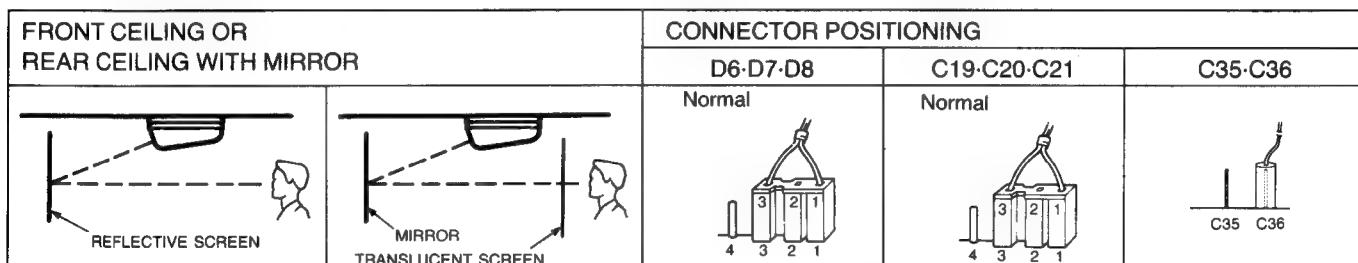
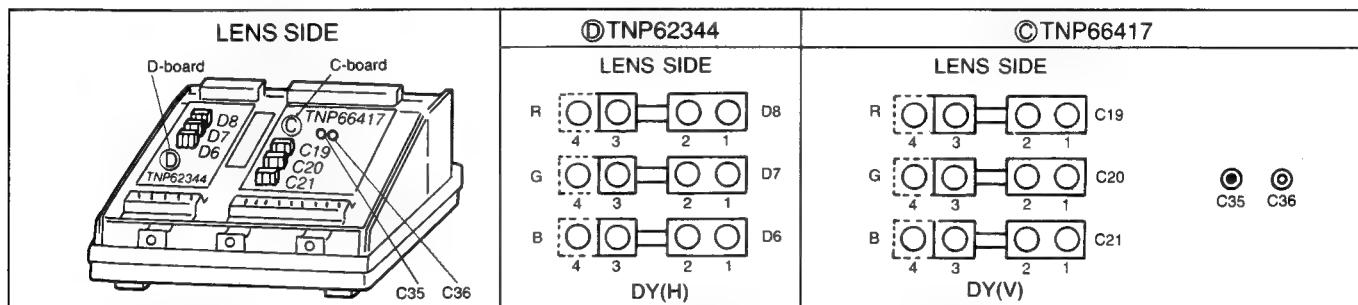
CAUTION:
White knobs, do not touch

5. Deflection Change

1. Turn off the Main Power Switch.
2. Changing the deflection circuit by repositioning the connectors on the D (TNP62344) and C (TNP66417) P.C. Boards allows the PT-302 to be configured for the various projection modes.

WARNING:

The connectors; D6, D7, D8, C19, C20 and C21 are designed to fit easily onto the connectors pins on the P.C. Boards. They must be reversed (180°) when changing the deflection connections. The unit will not function properly if the connectors are improperly inserted.



6. Green Raster Adjustment

Note: Adjustment of the GREEN RASTER may not be necessary for FRONT CEILING or REAR CEILING modes. Any controls not mentioned in this manual require the use of precision equipment for adjustment. Any attempt to adjust these controls may prevent satisfactory convergence and raster adjustments.

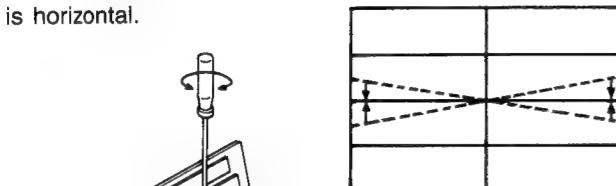
Carry out the installation adjustments in the order in which they are presented in this manual. Failure to do so many result in it being impossible to carry out satisfactory adjustment.

1. Turn the TEST switch ON and display the TEST (cross-hatch) Pattern.

2. Place Lens covers over the RED and BLUE lenses.

3. Horizontal Skew Adjustment

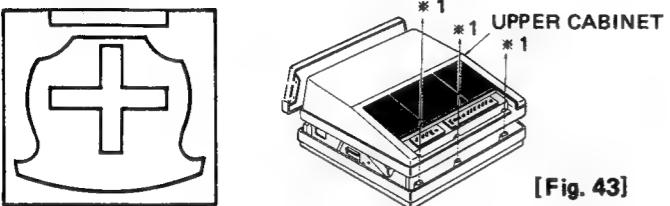
Loosen the GREEN deflection yoke clamp screw and rotate the deflection yoke so that the Horizontal Center Line is horizontal.



8. Dynamic Convergence Adjustment

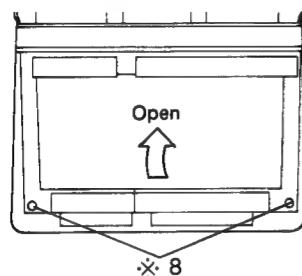
Note: If the Deflection Polarity (Installation mode) was not changed (page 26), Dynamic Convergence Adjustment procedures 1. through 6. will not be necessary.

1. Turn off the main power switch.
2. Remove the three screws designated *1 as in [Fig. 43] and remove the upper cabinet.
3. Set all of the Red and Blue convergence controls (⑤ ~ ⑯) to the center as in Figure below.



[Fig. 43]

4. Loosen 2 screws *8 counterclockwise by 90° as in Figure and open the chassis.



5. Turn on the main power switch. Input an external signal and turn the TEST switch on.
6. Loosen the Red and Blue deflection yoke clamp screws *9 and rotate the Red and Blue deflection yokes, so that the Red and Blue horizontal center line will coincide with Green horizontal center line.
7. Readjust the static convergence.
8. Cover the Blue lens with the lens cover.
9. Adjust each of the Red convergence controls in order from ⑤ to ⑯ as in Fig. 44 so that the Red pattern matches the Green pattern.
10. Cover the Red lens with the Lens cover and perform the operation in 9. for the Blue CRT. Adjust the Blue controls in order from ⑯ to ⑰.

[Fig. 44]

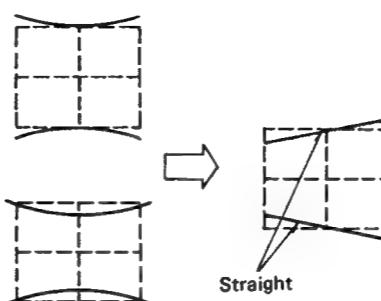
Order of Adjustment VR'S					Function of Adjustment VR'S				
G B-H B-V R-H R-V MAIN					G B-H B-V R-H R-V MAIN				
① 27	26	6	5		R789	R728	R807	R892	R870
② 30	32	9	11		R7011	R820	R809	R894	R871
③ 31	33	10	12		R844	R832	R911	R896	R873
④ 34	28	13	7		R745	R835	R913	R899	R876
⑤ 35	29	14	8		R837	R915	R902	R878	
SUB1					SUB1				
⑩ 40	36	19	15		R862	R828	R817	R801	R880
⑪ 46	41	37	20	16	R7024	R841	R819	R804	R882
⑫ 25	42	38	21	17	R7203	R843	R821	R805	R884
⑬ 43	39	22	18		R828	R826	R808	R885	
G-STATIC SUB2					SUB2				
⑭ 48	47	45	44	24	R7006	R824	R813	R807	R872
⑮ 45	44	24	23		R7005	R823	R807	R887	R872

Main Adjustment ⑤ to ⑯ for RED - (⑯ to ⑰ for BLUE)

Note: Dot line.....Green
Solid line.....Red or Blue

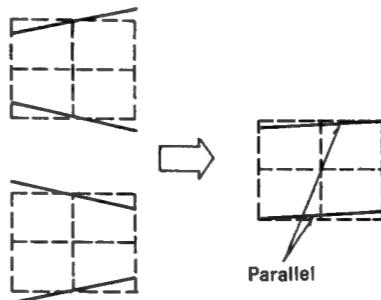
⑤ (⑯) Top and bottom pincushion

Rotate R870 (R907) so that both top and bottom horizontal lines are straight. Covering the green lens will help in determining that both lines are straight.



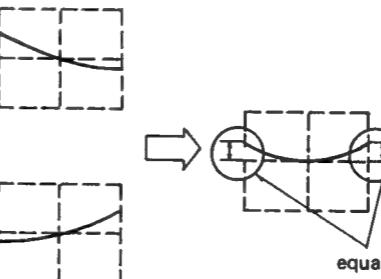
⑥ (⑰) Top and bottom key stone

Rotate R892 (R928) so that Top and bottom lines are almost parallel. Covering the green lens will help determining that both lines are parallel.



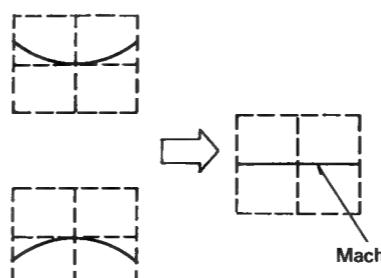
⑦ (⑱) Horizontal Skew

Rotate R876 (R913) so that the horizontal center line is at the center and equal distance at each end from the green horizontal center line.



⑧ (⑲) Horizontal Bow

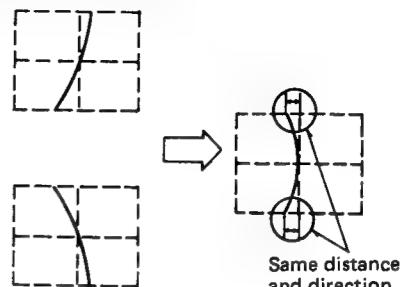
Rotate R878 (R915) so that the horizontal center line matches the green horizontal center line.



If you can not converge, readjust ⑦ (⑱) (Horizontal Skew)

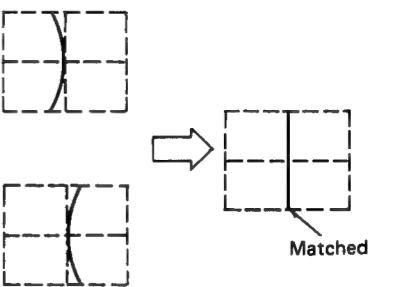
⑨ (⑳) Vertical Skew

Rotate R894 (R930) so that the vertical center line is touching at the center and equal distance and same direction at each end from green vertical center line.



⑩ (㉑) Vertical Bow

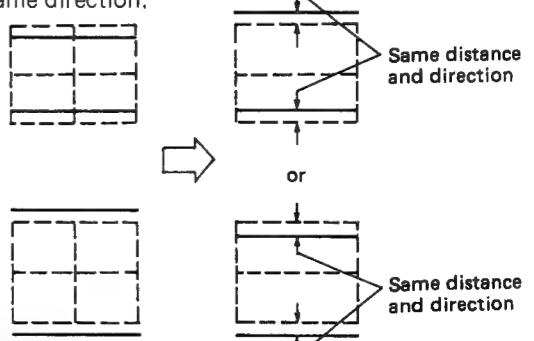
Rotate R896 (R932) so that the vertical center line matches the green vertical center line.



If you can not converge, readjust ⑨ (㉑) (Vertical Skew)

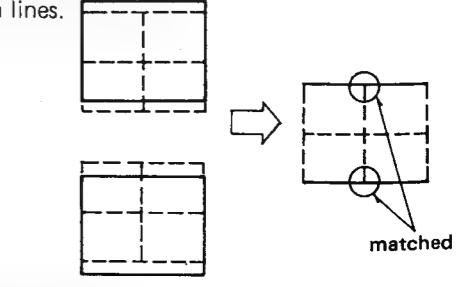
⑪ (㉒) Vertical Size

Rotate R871 (R909) so that at the center of the top and bottom horizontal lines, these lines are the same height as the green lines and that any offset at top and bottom is same and same direction.



⑫ (㉓) Vertical Linearity

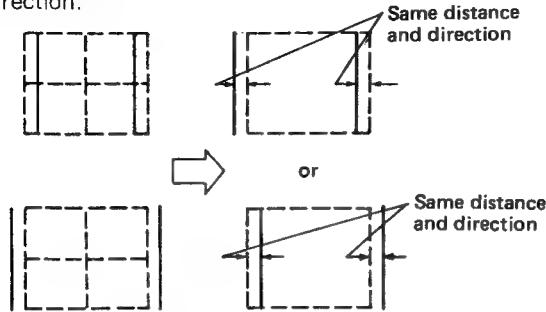
Rotate R873 (R911) so that the center of the top and bottom horizontal lines match the center of the green top and bottom lines.



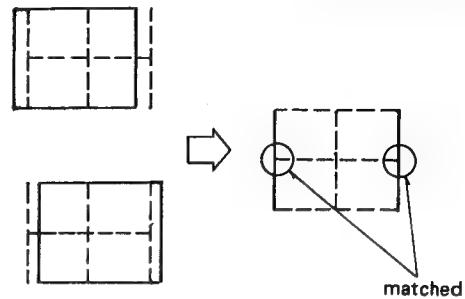
If you can not converge the top and bottom lines readjust ⑪ (㉒) (Vertical size)

(13) (34) Horizontal Size

Rotate R898 (R935) so that at the center of the left and right vertical lines, these lines are the same width as the green lines and that any offset at left and right is same and same direction.

**(14) (35) Horizontal Linearity**

Rotate R900 (R937) so that the center of the right and left vertical lines match the center of the green right and left lines.



If you can not converge the right and left lines, readjust
(13) (34) (Horizontal size)

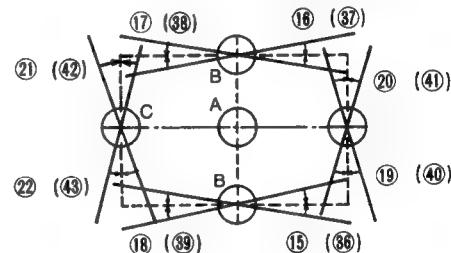
SUB 1 Adjustment (15) to (22) (36) to (43)

Refer adjust corner convergence (15) to (22) (36) to (43).

- Confirm that the horizontal and vertical center lines of all three rasters cross at the center.
- Confirm that the center of the top and bottom horizontal lines of all three rasters are converged at the center point.
- Confirm that the center of the left and right vertical lines of all three rasters are converged at the center point. If A, B and C are all converged properly.

If they are not converged properly, readjust the main dynamic convergence control SUB 1 control cannot compensate for misconvergence.

Converge the four corners using controls (15) to (22) (36) to (43).

**SUB 2 Adjustment**

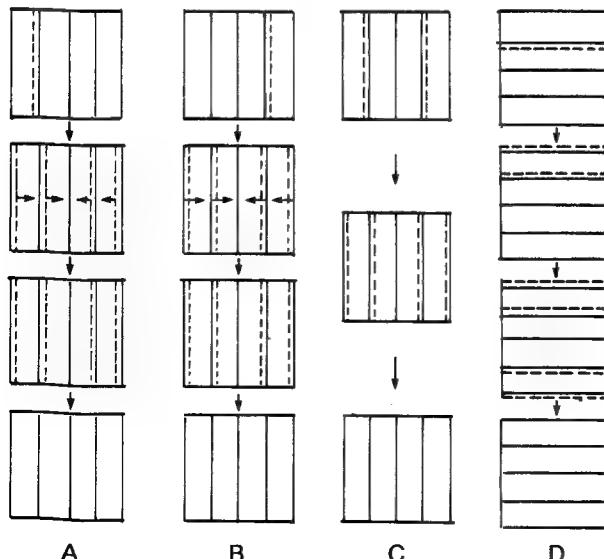
- When the Horizontal linearity is off inside the left (or right) edge of the screen, adjust R7023 (R7024) so that the linearity is offset across the screen towards the center.

By adjusting the right horizontal size R887 (R924), and the horizontal linearity R900 (R937) controls alternately, adjust the picture so that the deviation from the green raster is equal across the screen.

Adjust R898 (R935) the horizontal width control to converge all the vertical lines on the green raster.

- When the Horizontal linearity is off inside both edges of the screen, adjust R7023 (R7024) so that the linearity is offset across the screen towards the center.

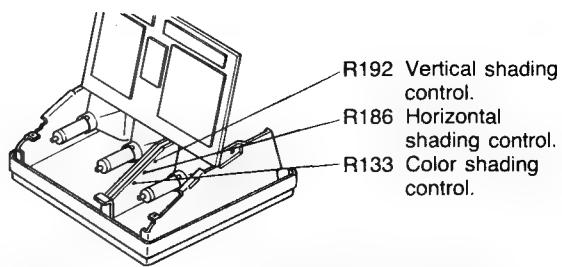
Adjust R898 (R935) the horizontal width control to converge all the vertical lines on the green raster.



- When the linearity is off outside the top (or bottom) edge of the screen, adjust R7012 (R7013) and the vertical linearity R873 (R911) controls alternately, adjust the picture so that the deviation from the green raster is equal across the screen. Adjust R871 (R909) the vertical width control to converge all the horizontal lines on the green raster.

9. Shading Connection

Input a white pattern or snow noise signal and turn the Colour Control fully counterclockwise. If brightness or colour appears uneven, adjust the following controls.



Adjust the colour shading control (R133), so that entire picture is white.	Adjust the Horizontal shading control (R192), so that the Brightness level is even across the screen.	Adjust the Vertical shading control (R186), so that the Brightness level is even from top to bottom.

10. RGB Mode Adjustment

If the abnormal conditions listed below occur when a personal computer is connected to the RGB inputs, the unit is probably not defective. Adjust the respective control to compensate for each condition. The controls indicated have no effect when the unit is not in the RGB mode.

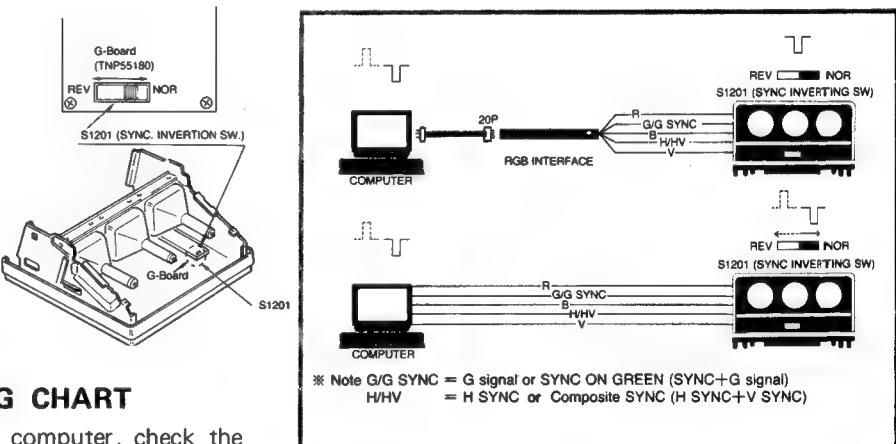
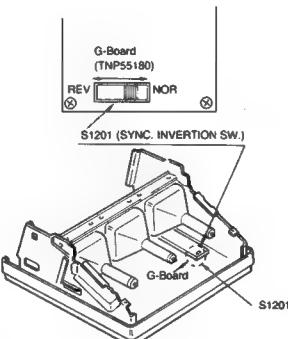
1. When the picture is shifted to either the left or the right, adjust its position with the H-Centering control (R568) on the C-Board.
2. To adjust the picture size adjust the following controls to obtain the size desired: H-Width control (R1536) on the D-Board and V-Height control (R473) on the C-Board.
3. When vertical rolling occurs adjust the V-Hold control (R424) on the C-Board.

Systems Applications

SYNC INVERTING SWITCH

The purpose of this switch (S1201) is for changing the polarity of the synchronizing signal from the computer.

Normally this switch is at **NOR** position and located on the **G** Board (TNP55180).

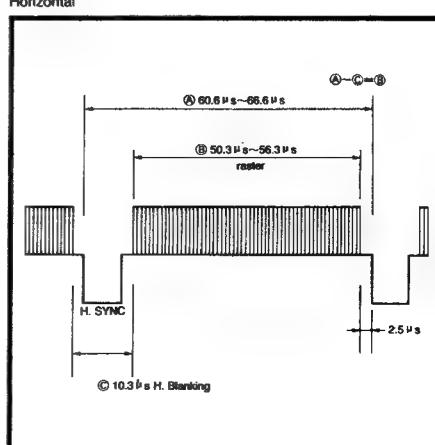
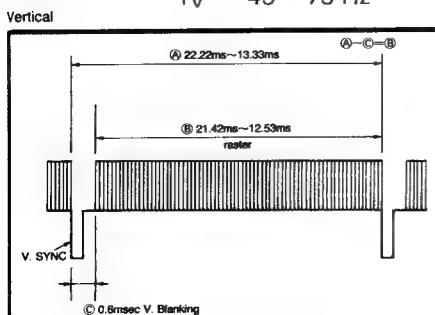


Computer Application

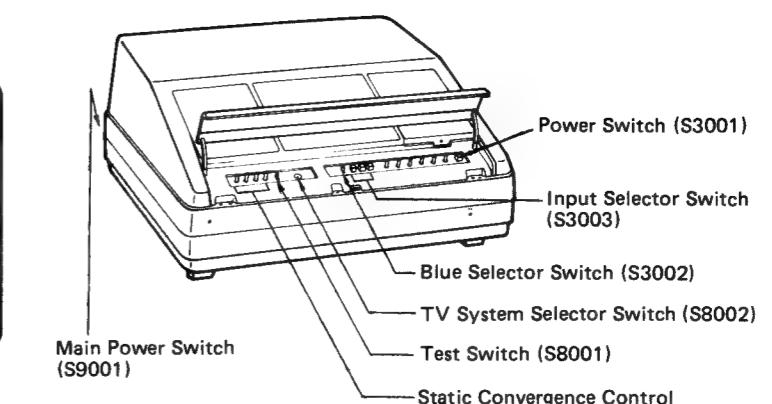
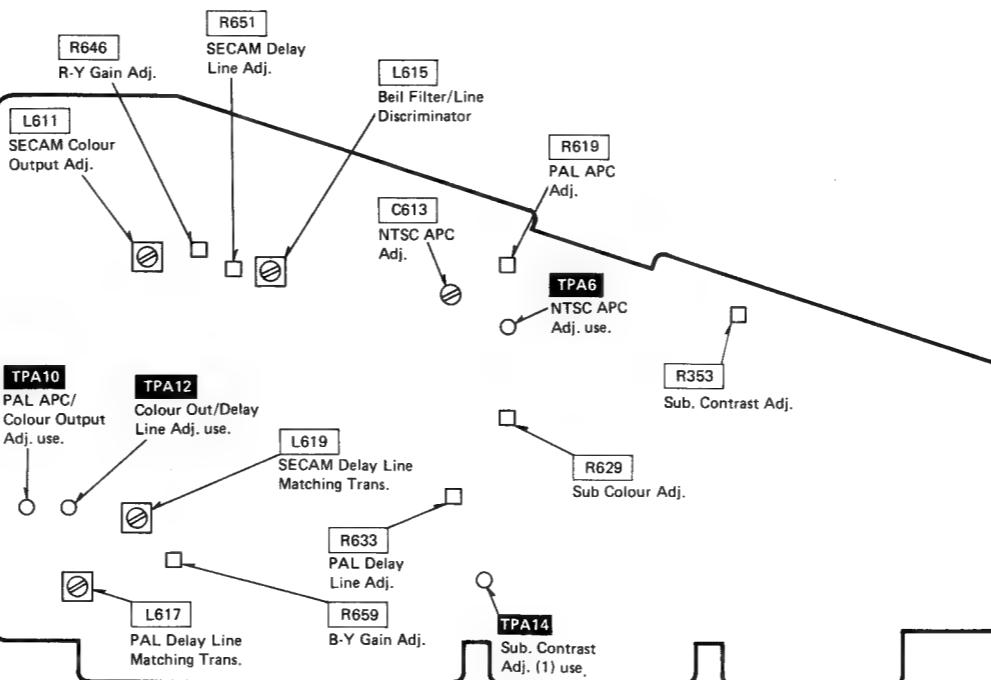
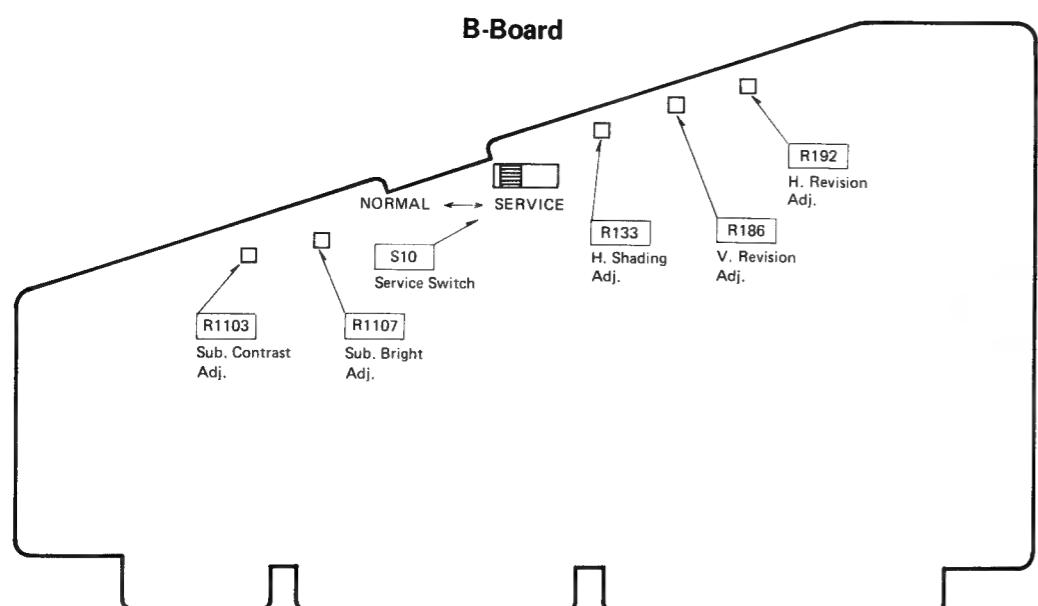
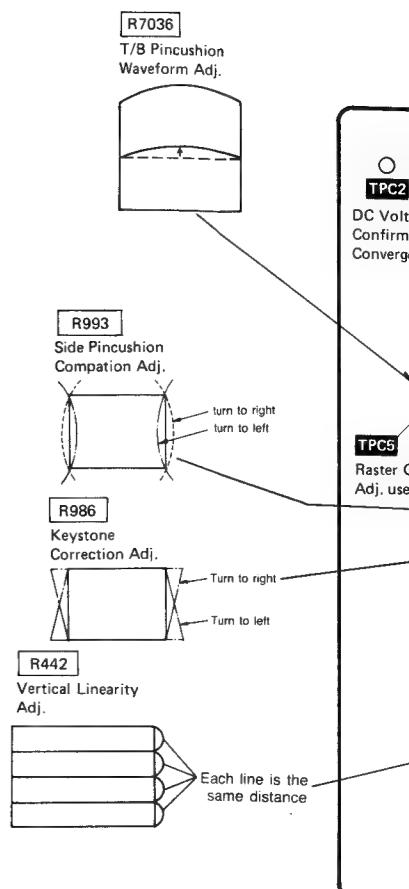
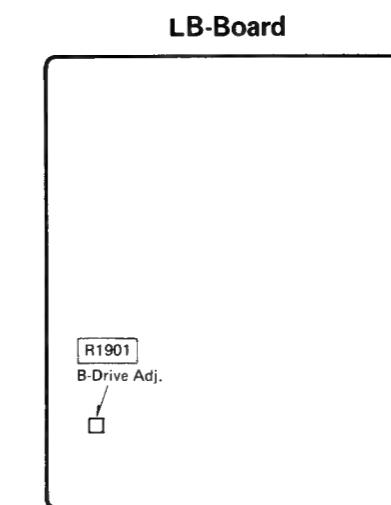
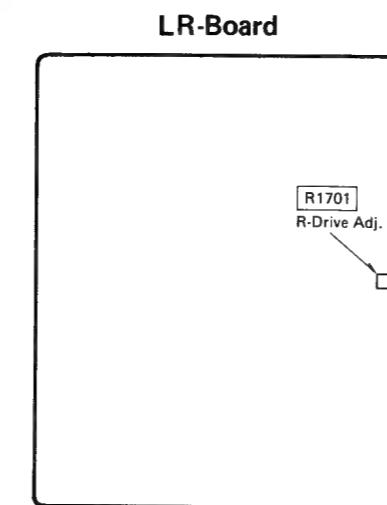
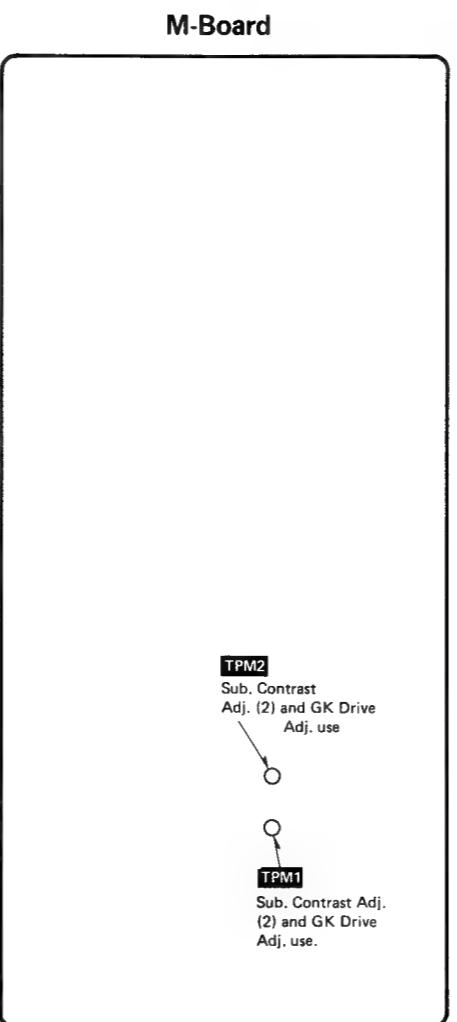
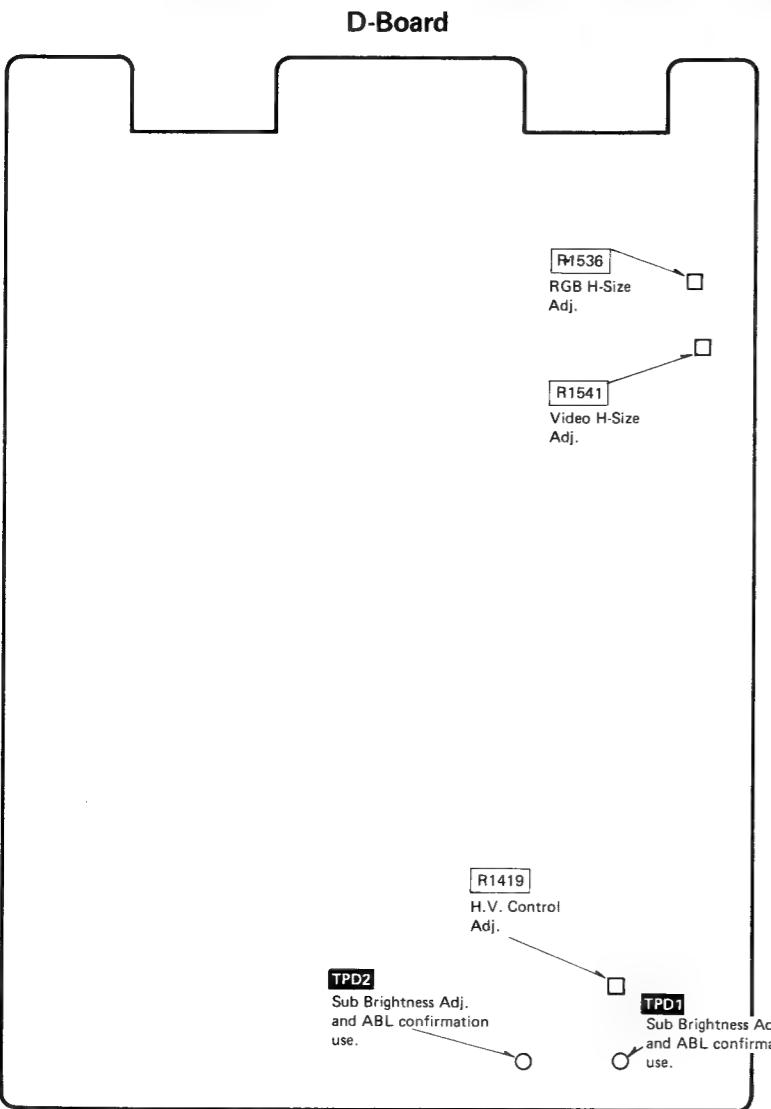
PT-302 FREQUENCY TIMING CHART

When PT-302 is connected to the computer, check the scanning frequency (or time), display time and blanking time of horizontal and vertical, compare with the following time chart.

* Reference: PT-302 $f_H = 15.75 \pm 0.75$ kHz
 $f_V = 45 \sim 75$ Hz



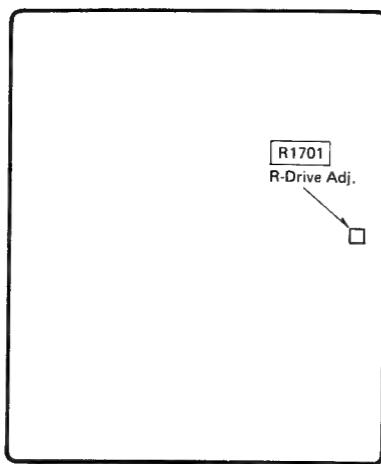
LOCATION OF TEST POINT AND CONTROLS



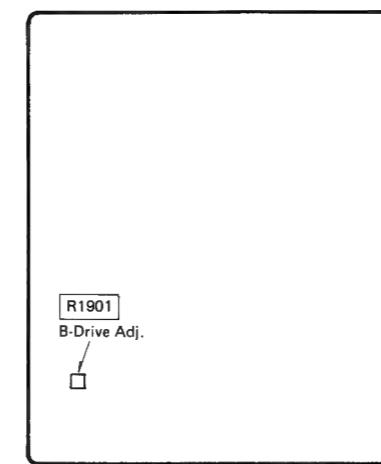
M-Board



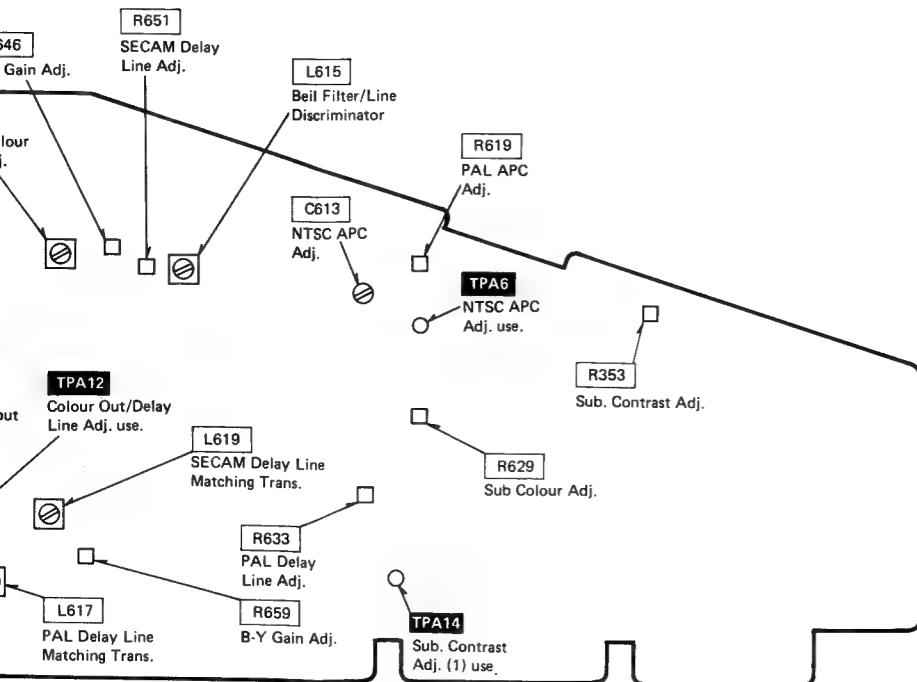
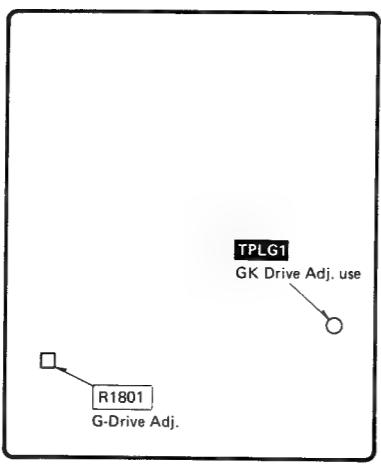
LR-Board



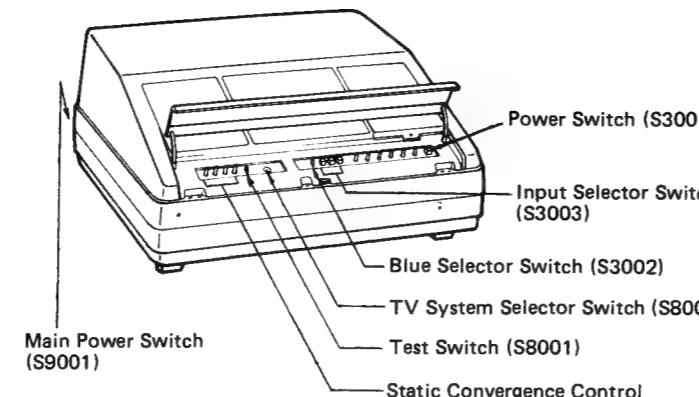
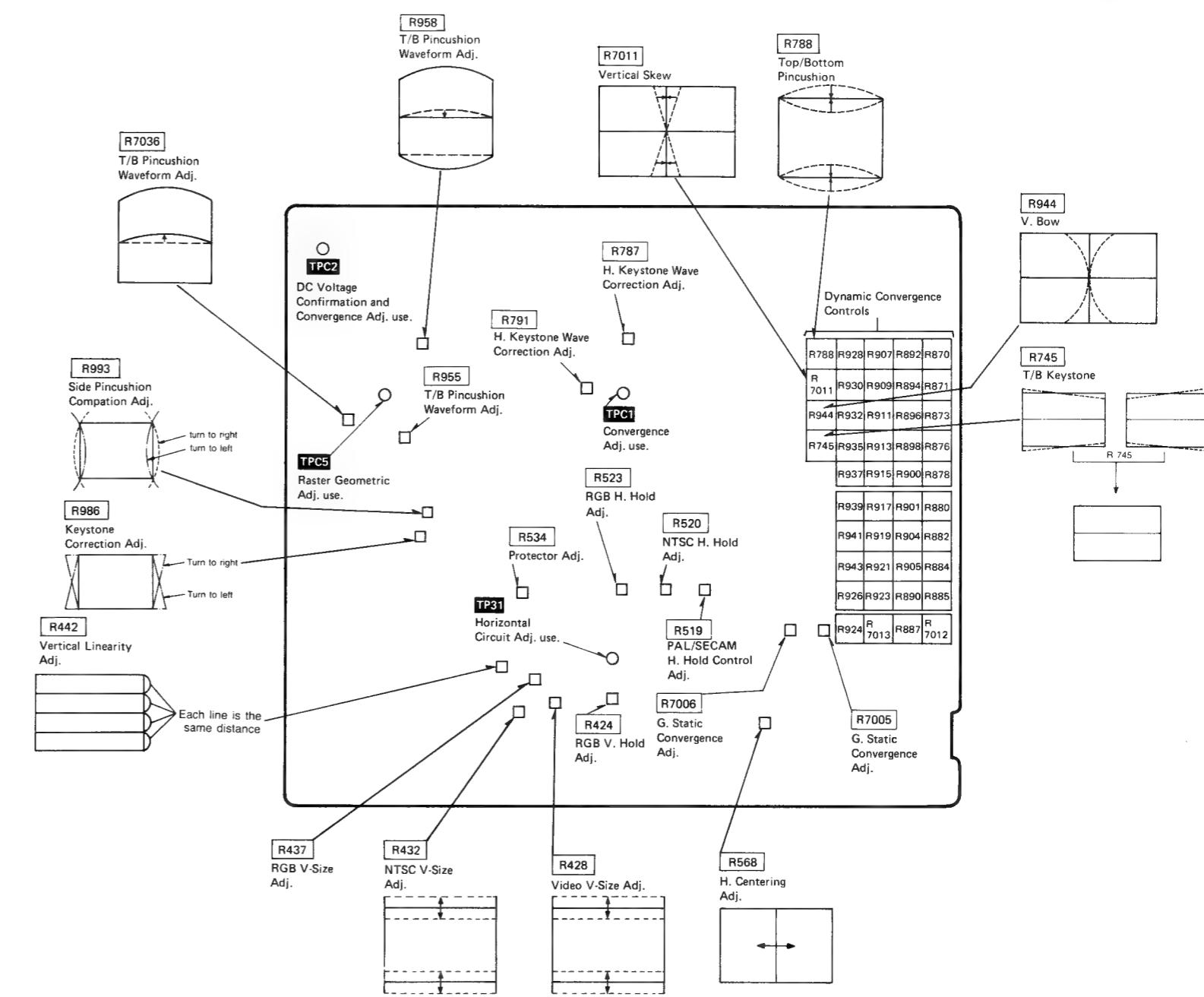
LB-Board



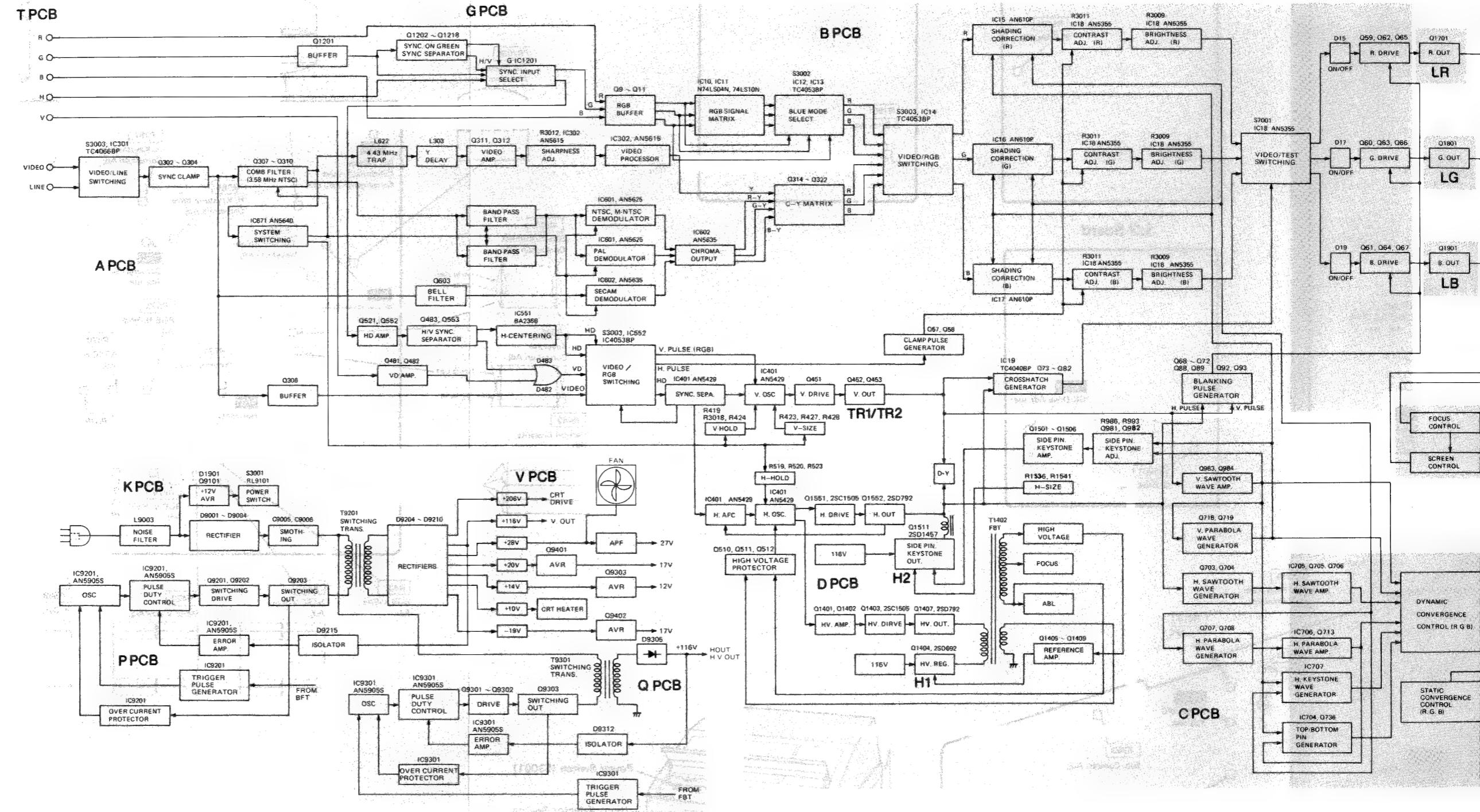
LG-Board

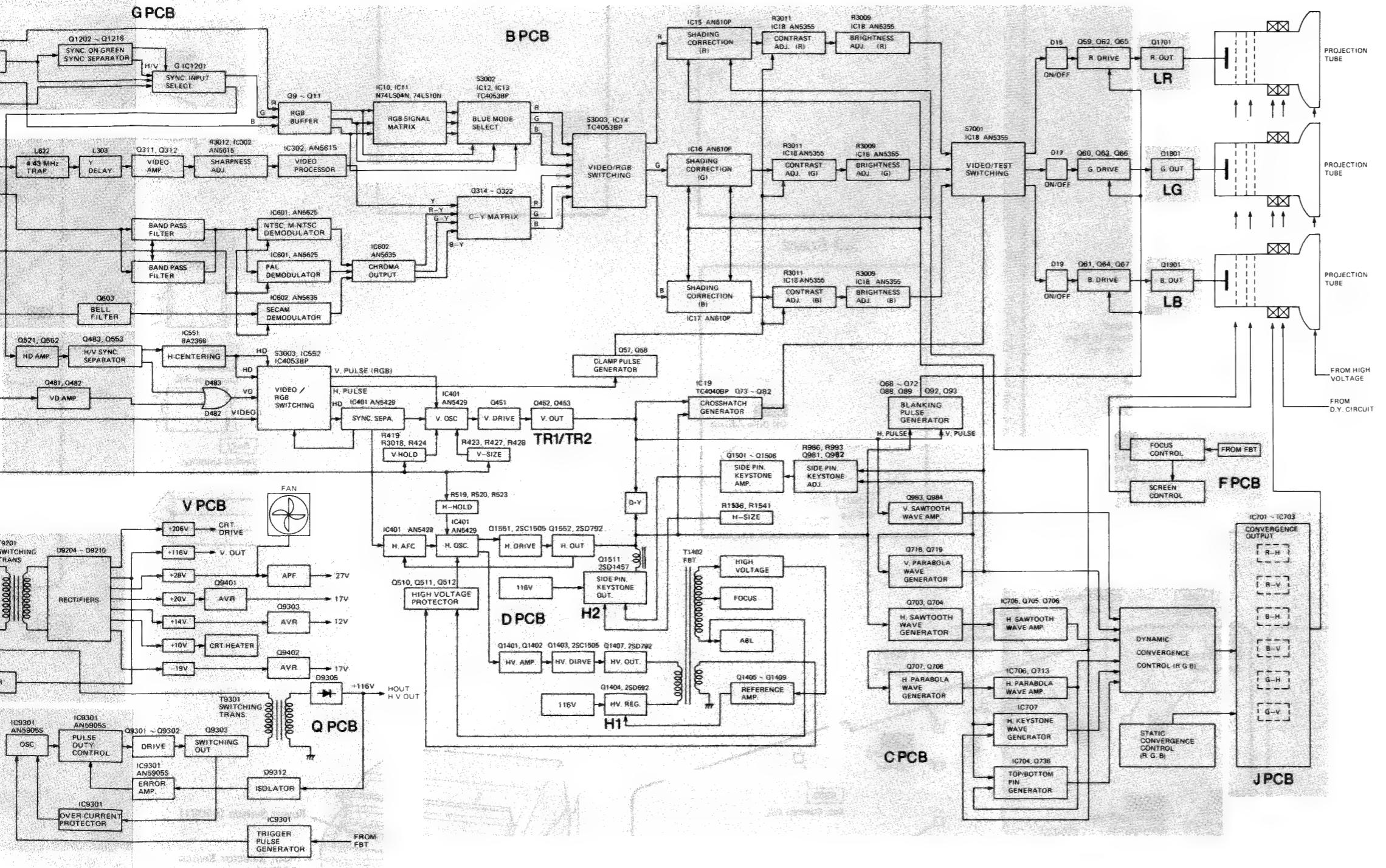


C-Board



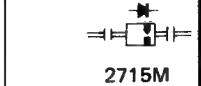
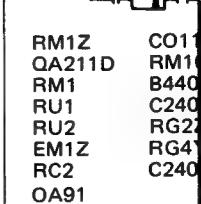
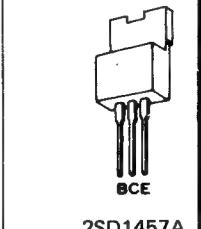
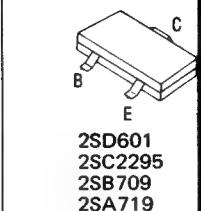
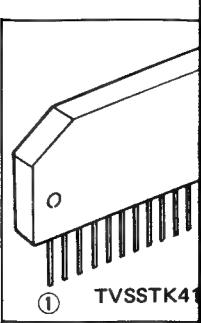
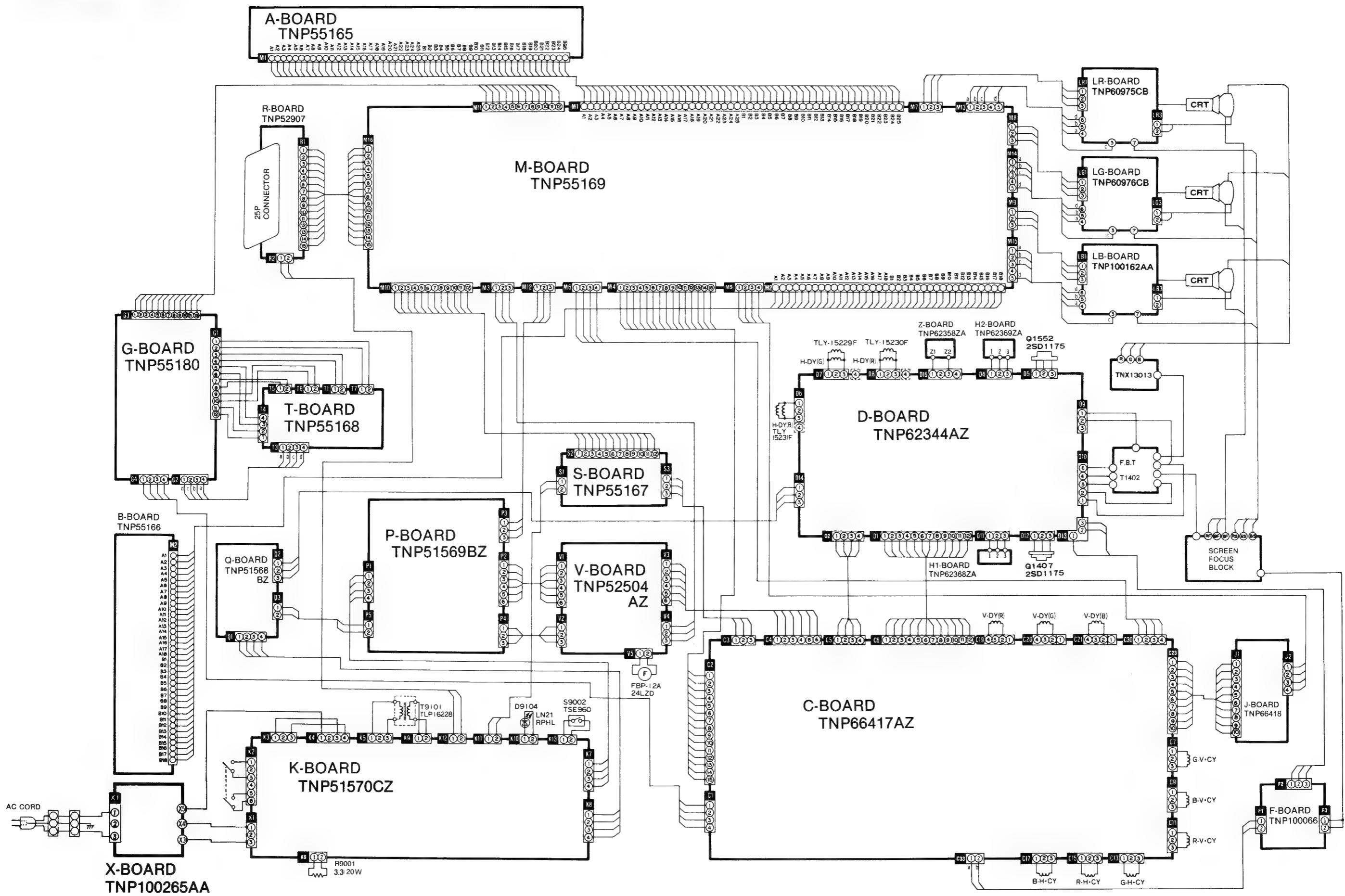
BLOCK DIAGRAM



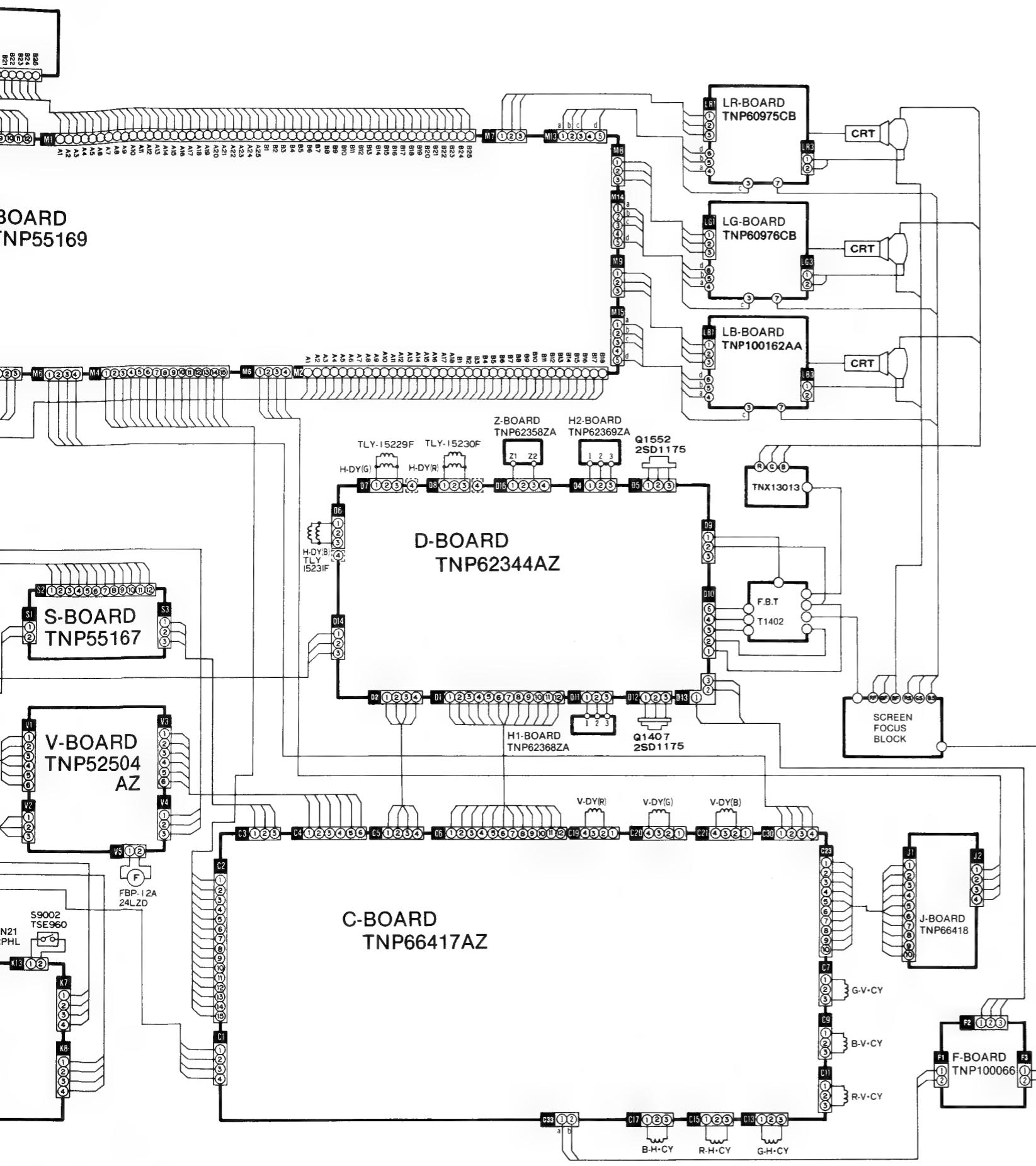


INTERCONNECTION

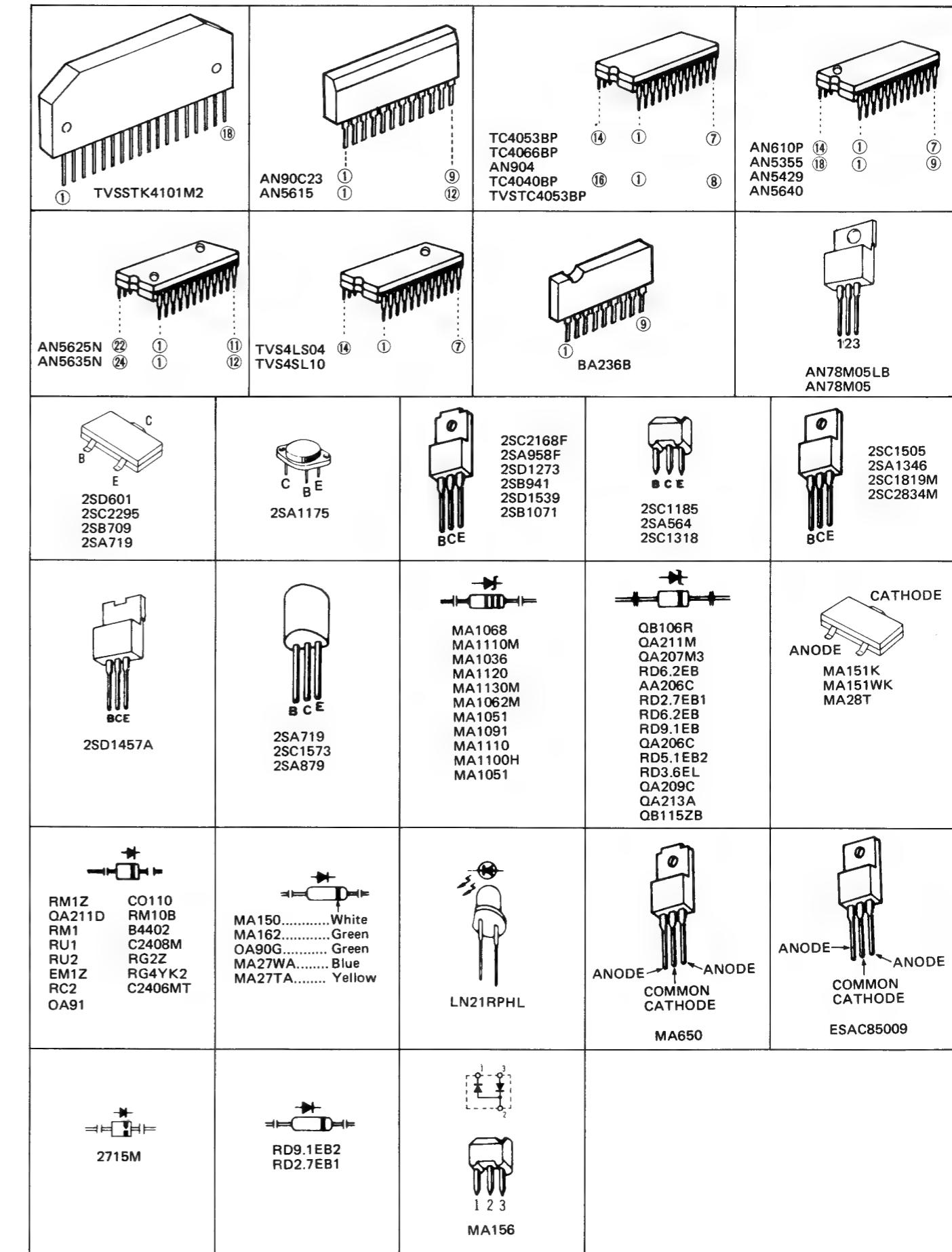
TERMINAL GUIDE



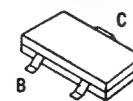
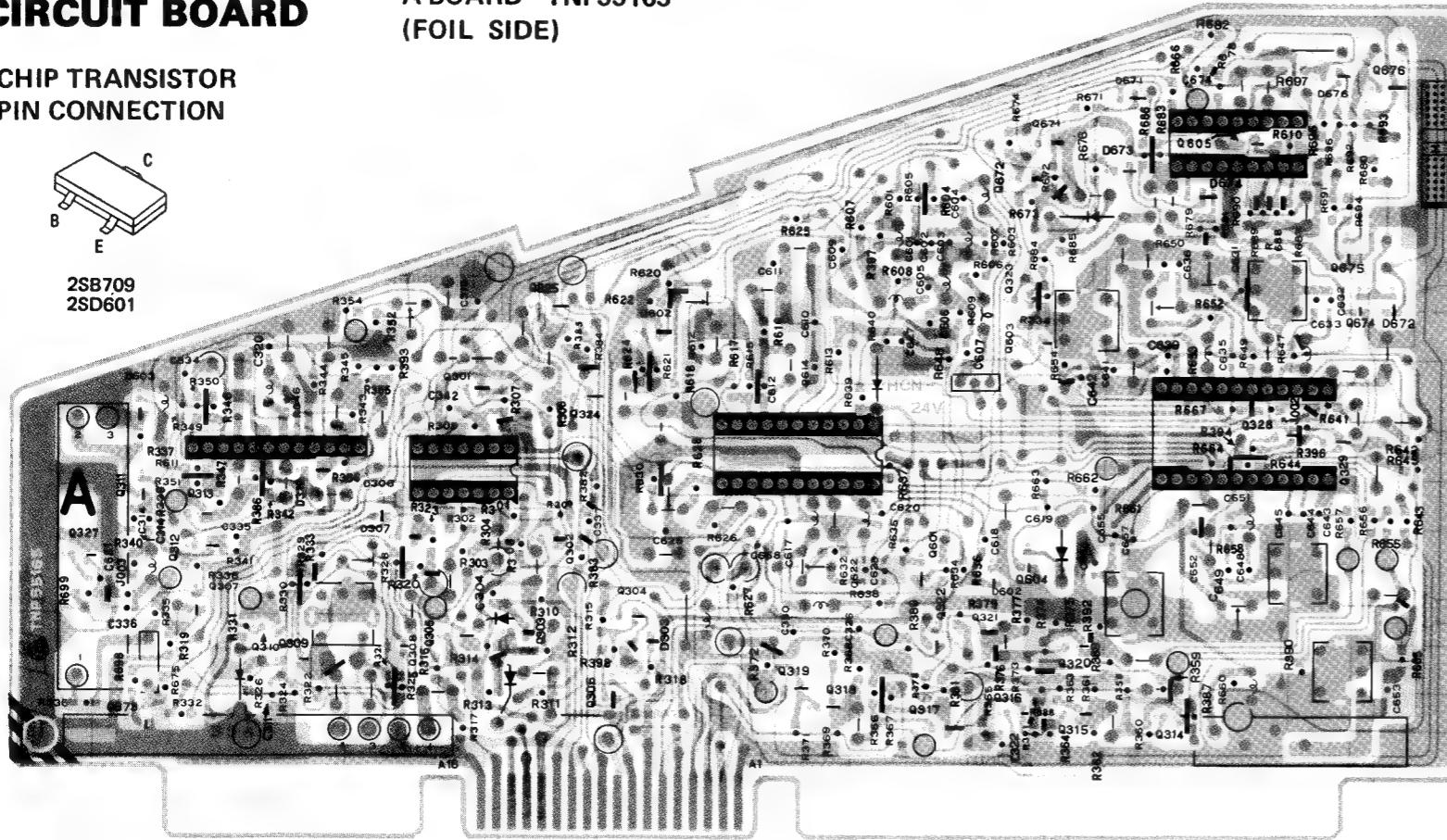
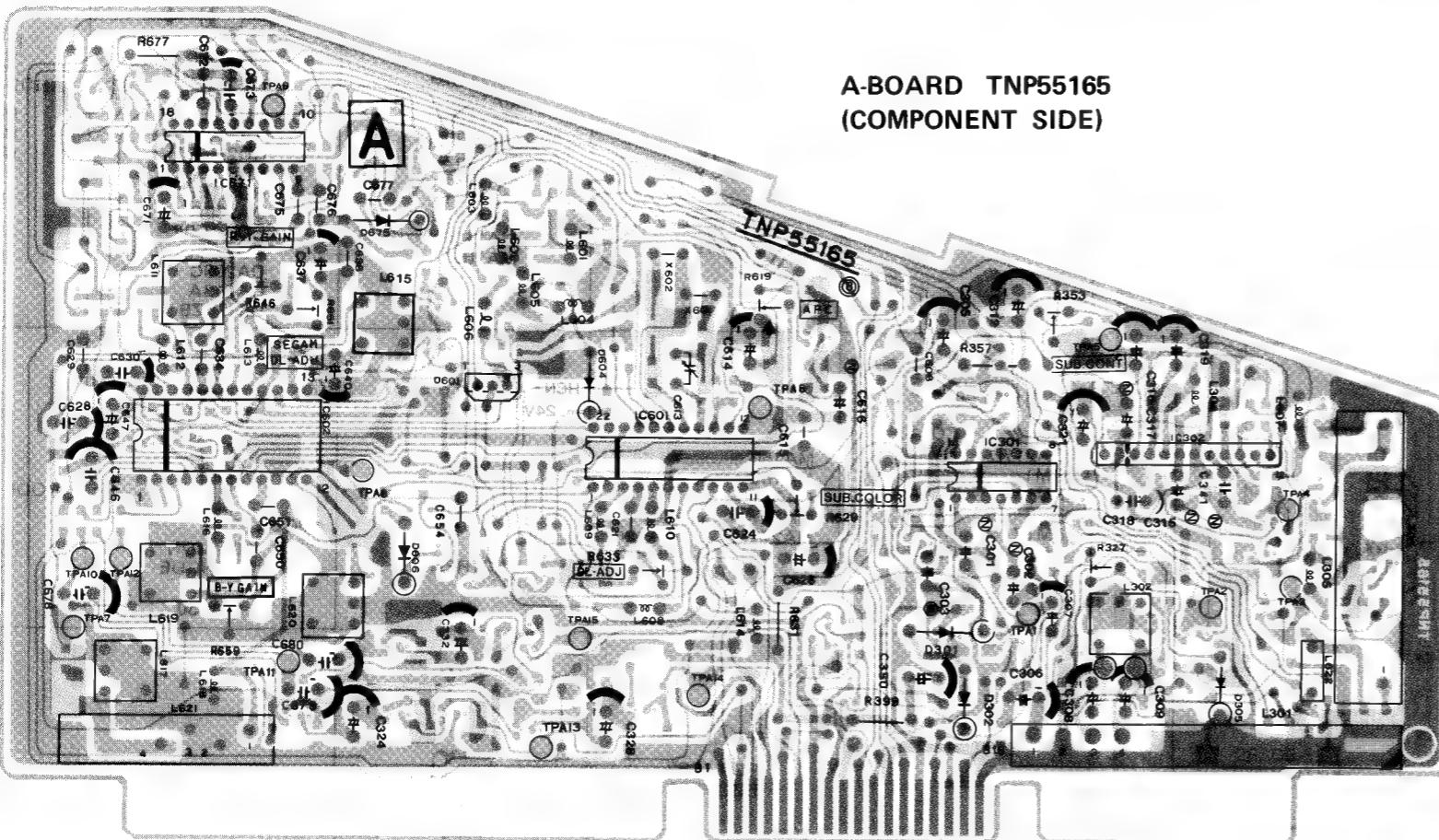
TERMINAL GUIDE OF IC'S, TRANSISTOR AND DIODES

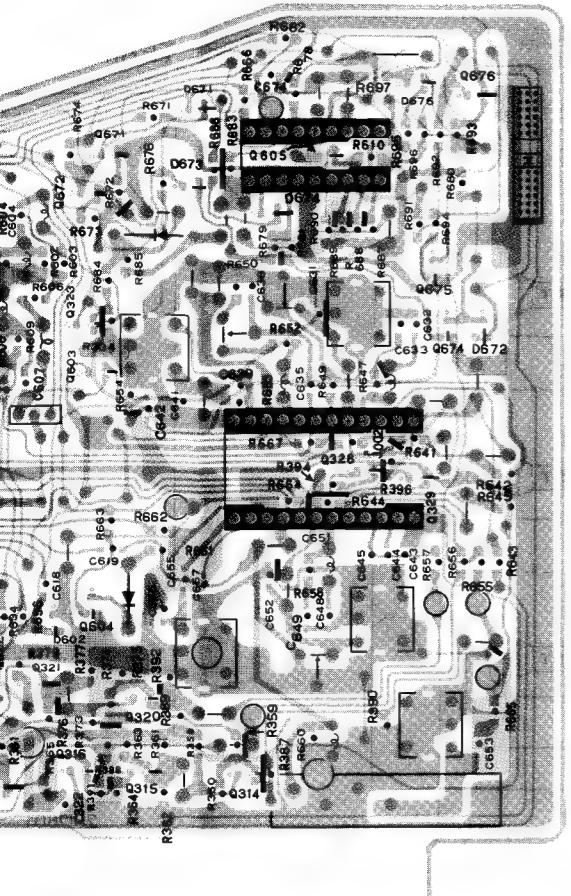


- 40 -



— 41 —

CIRCUIT BOARD**A-BOARD TNP55165
(FOIL SIDE)**CHIP TRANSISTOR
PIN CONNECTION2SB709
2SD601**A-BOARD TNP55165
(COMPONENT SIDE)**



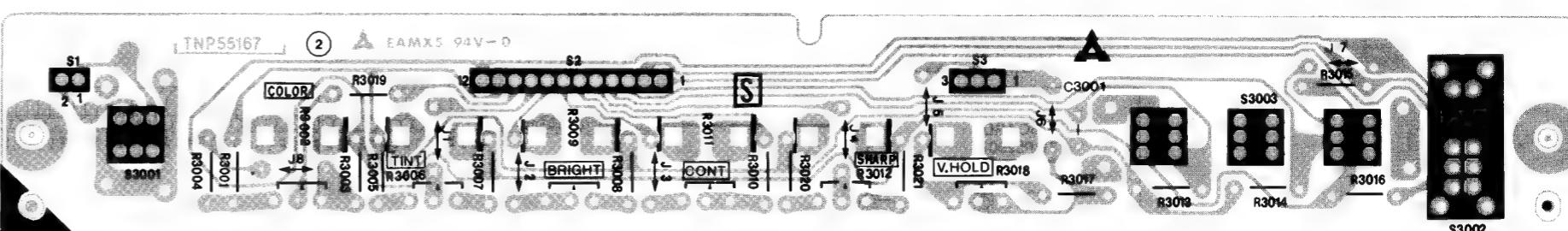
A-BOARD	
I.C	
IC301	B-4 C
IC302	B-5 C
IC601	B-3 C
IC602	B-2 C
IC671	C-2 C
Q604	E-5 F
Q605	F-5 F
Q671	F-5 F
Q672	F-4 F
Q673	D-1 F
Q674	E-6 F
Q675	F-6 F
Q676	F-6 F

Transistor	
Q301	E-3 F
Q302	E-3 F
Q303	D-3 F
Q304	E-3 F
Q305	D-2 F
Q306	D-3 F
Q307	E-2 F
Q308	D-2 F
Q309	D-2 F
Q310	D-2 F
Q311	E-1 F
Q312	E-2 F
Q313	D-5 F
Q314	D-5 F
Q315	D-4 F
Q316	D-4 F
Q317	D-4 F
Q318	D-4 F
Q319	D-4 F
Q320	D-5 F
Q321	D-4 F
Q322	F-4 F
Q323	E-3 F
Q324	F-3 F
Q325	E-4 F
Q601	E-1 F
Q602	E-4 F
Q603	E-4 F

VR	
R327	B-5 C
R353	C-5 C
R619	C-4 C
R629	B-4 C
R633	B-3 C
R646	C-2 C
R651	C-2 C
R659	A-2 C

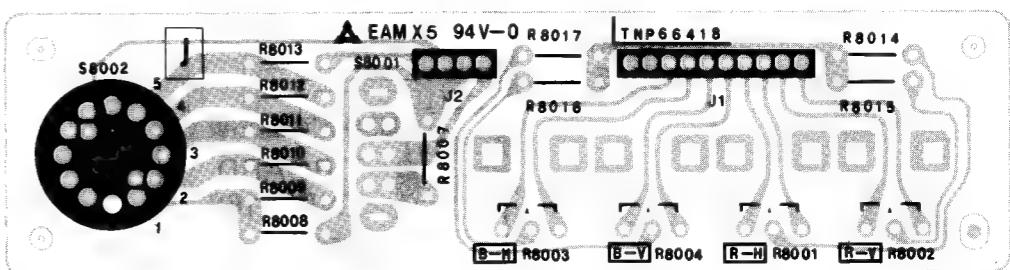
Test Point	
TPA1	A-4 C
TPA2	B-5 C
TPA3	B-6 C
TPA4	B-6 C
TPA5	C-5 C
TPA6	B-4 C
TPA7	A-1 C
TPA8	B-2 C
TPA9	C-2 C
TPA10	C-1 C
TPA11	A-2 C
TPA12	B-1 C
TPA13	A-3 C
TPA14	A-3 C
TPA15	A-3 C

ADDRESS INFORMATION
C ... COMPONENT SIDE
F ... FOIL SIDE

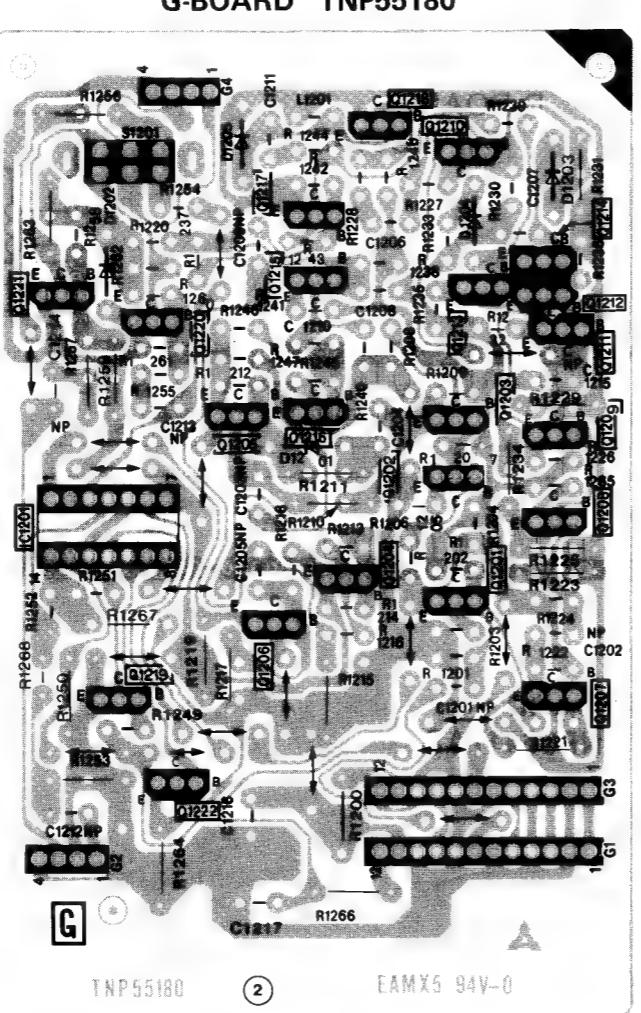
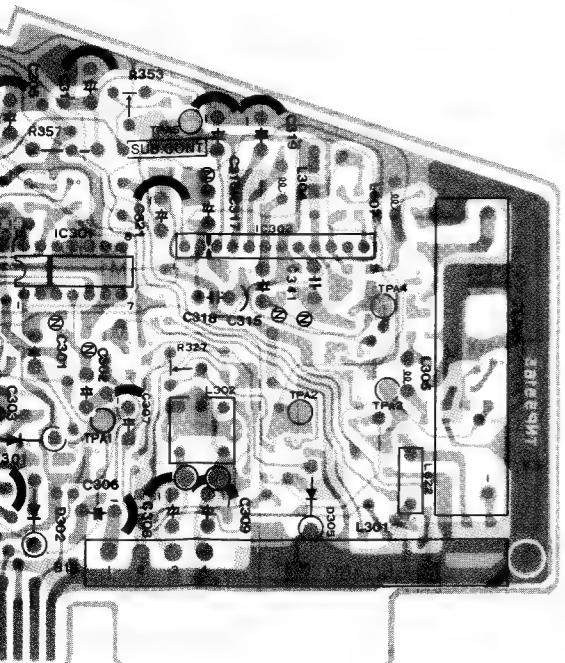


S-BOARD TNP55167

J-BOARD TNP66418

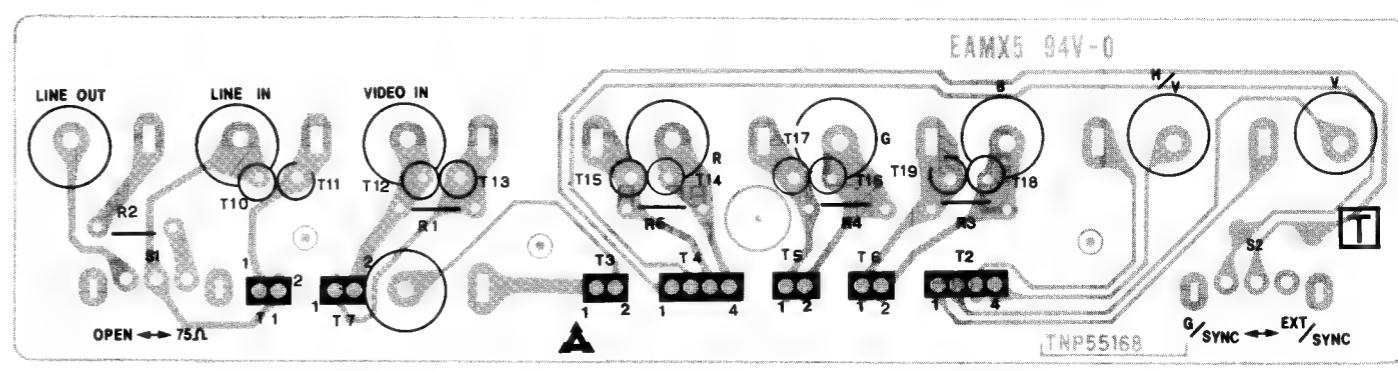


RD TNP55165
ONENT SIDE)



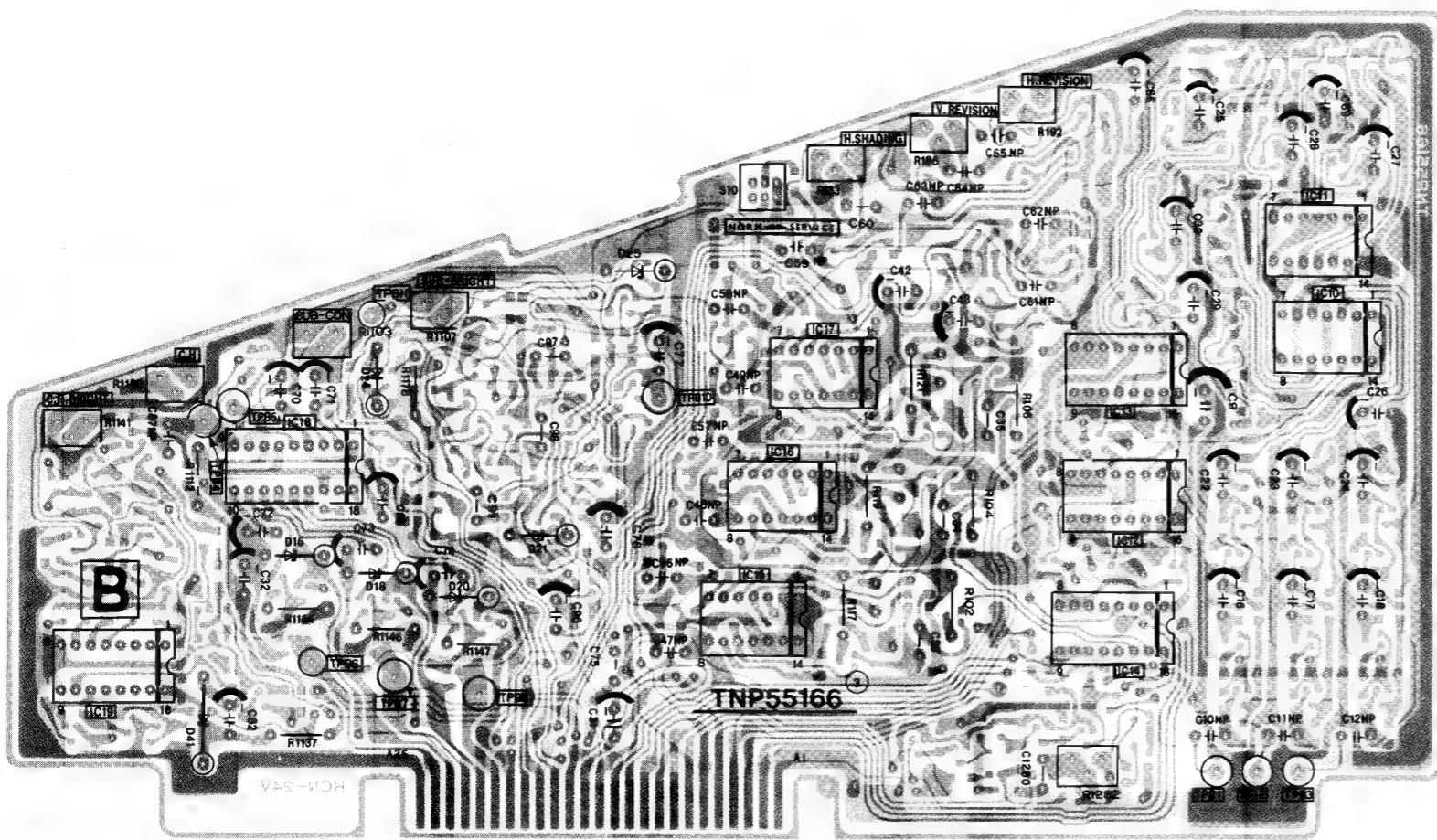
G-BOARD	
I.C	
IC1201	B-7
Transistor	
Q1201	B-8
Q1202	C-8
Q1203	C-8
Q1204	B-8
Q1205	C-7
Q1206	B-7
Q1207	B-7
Q1208	B-8
Q1209	C-8
Q1210	D-8
Q1211	C-8
Q1212	C-8
Q1213	C-8
Q1214	C-8
Q1215	C-8
Q1216	C-8
Q1217	D-7
Q1218	D-8
Q1219	B-7

ADDRESS INFORMATION

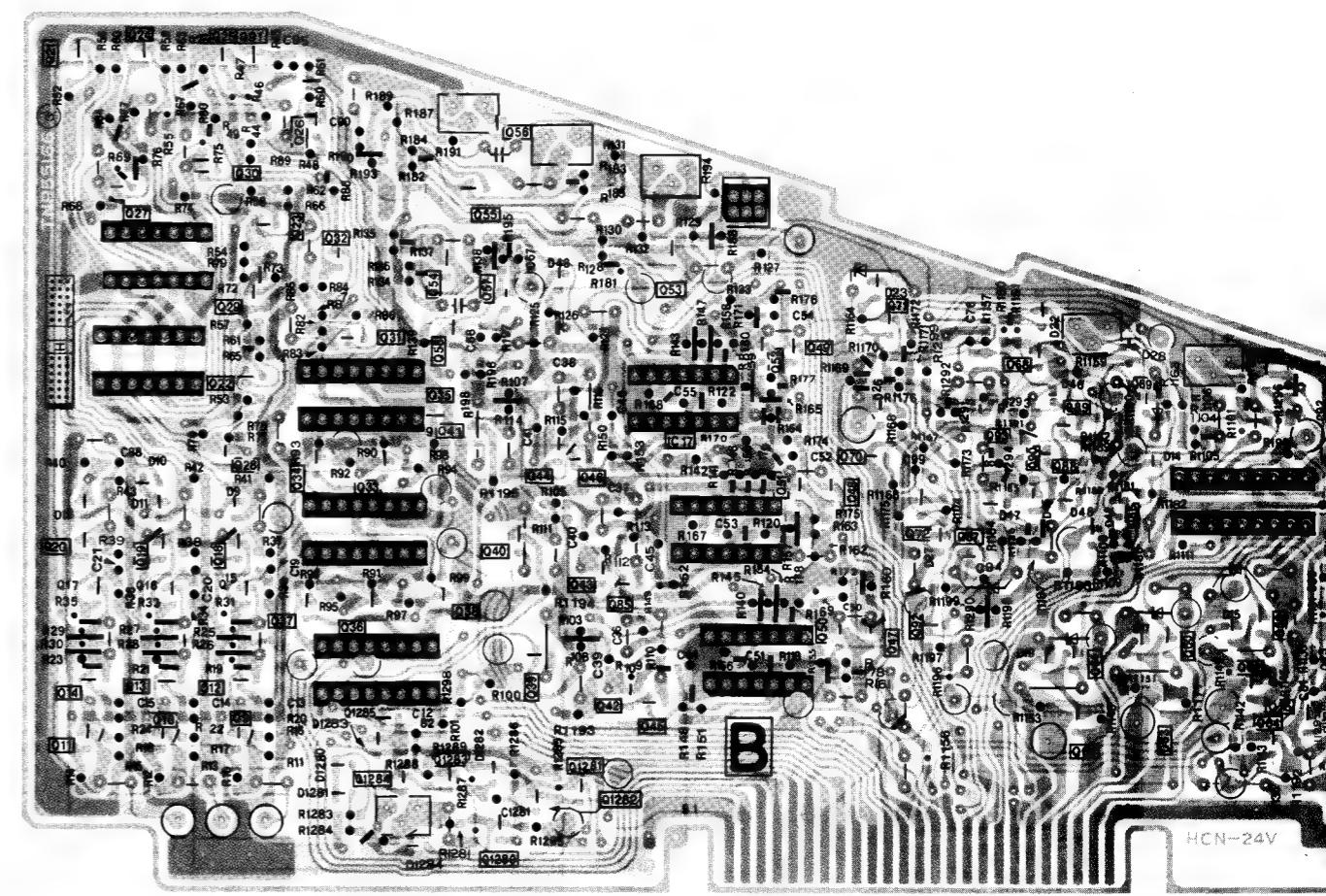


T-BOARD TNP55168

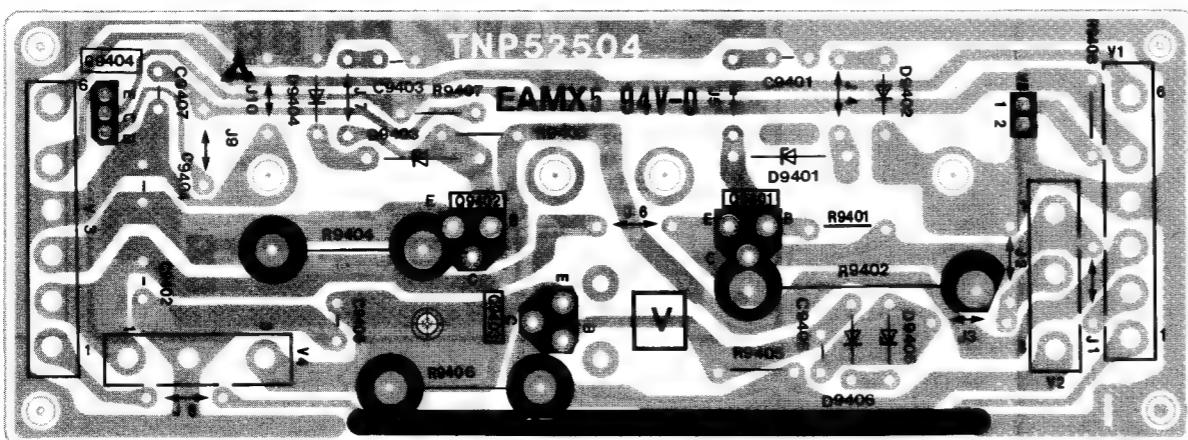
B-BOARD TNP55166
(COMPONENT SIDE)



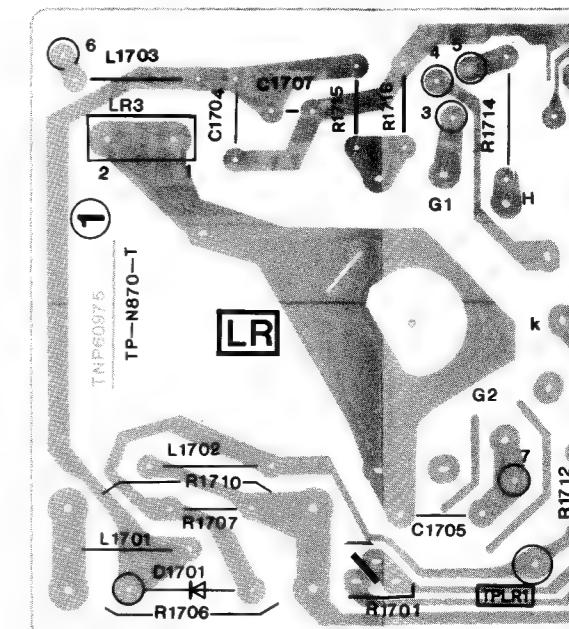
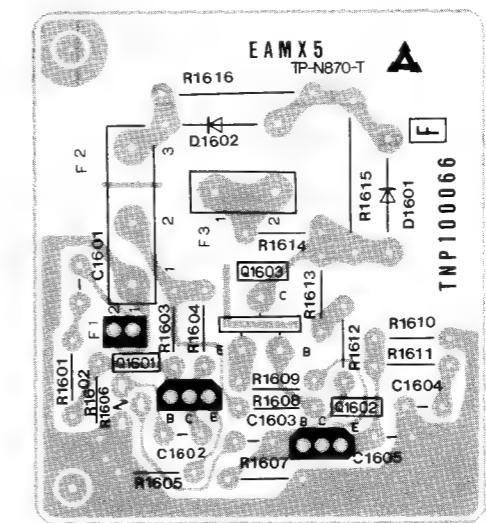
B-BOARD TNP55166
(FOIL SIDE)

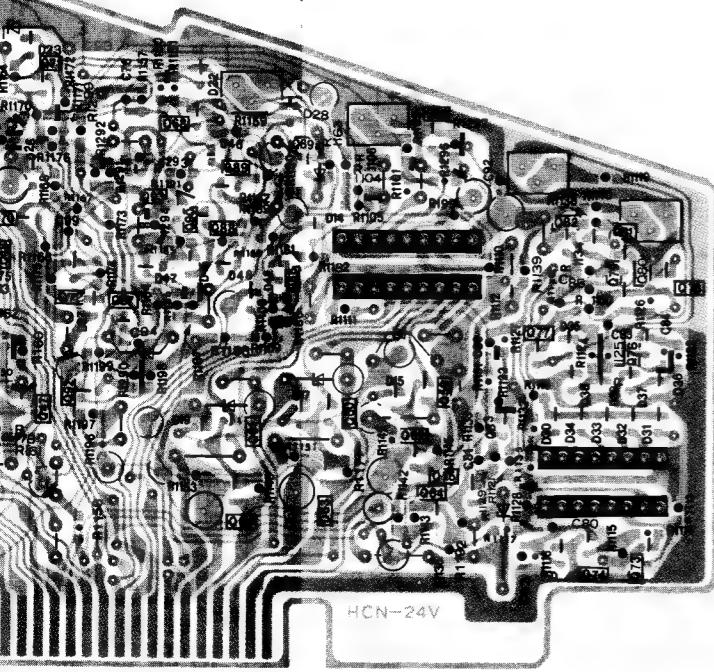
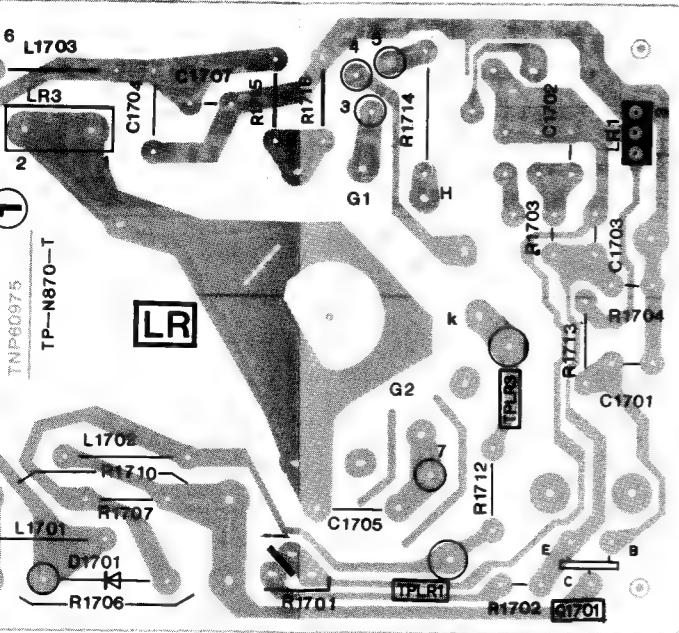


V-BOARD TNP52504AZ



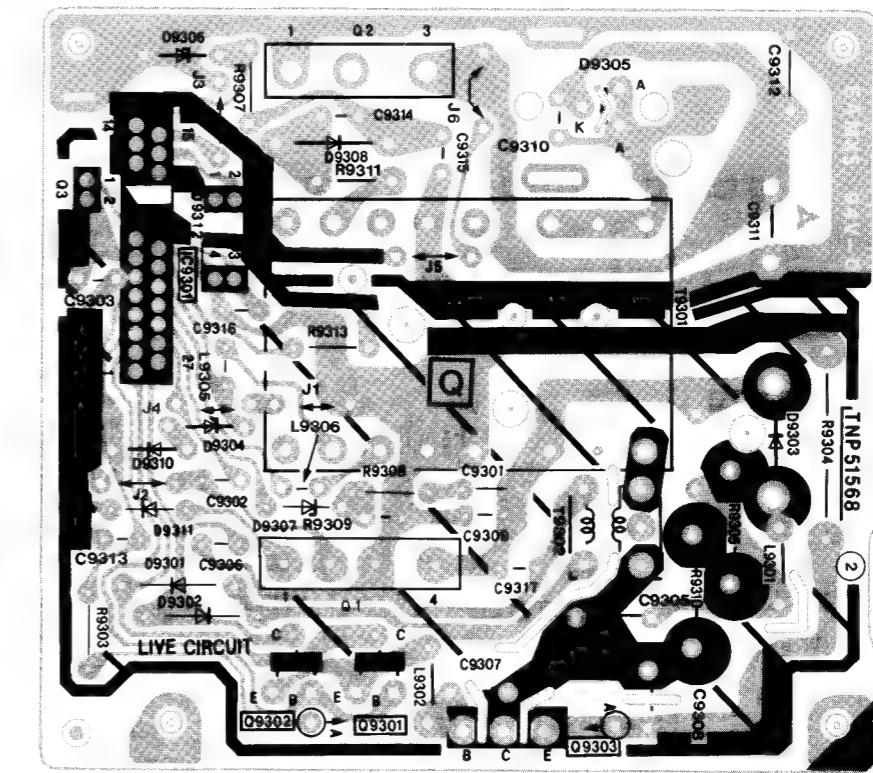
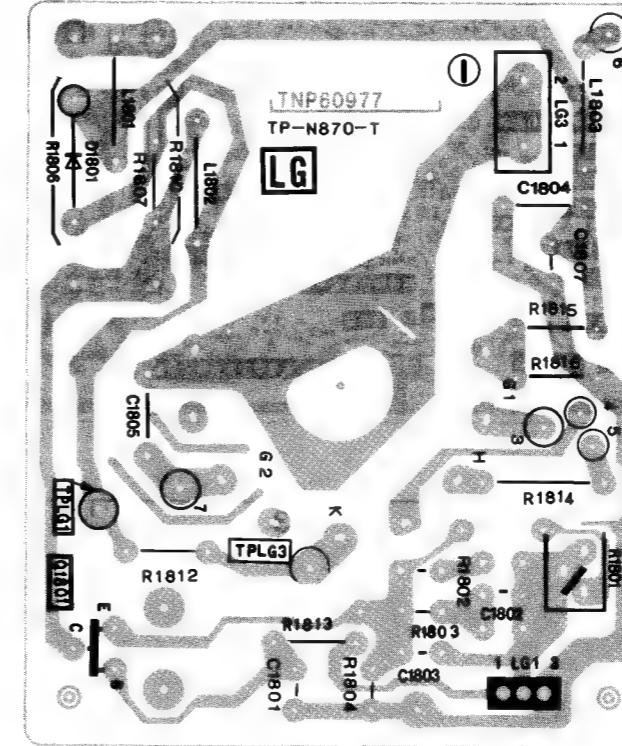
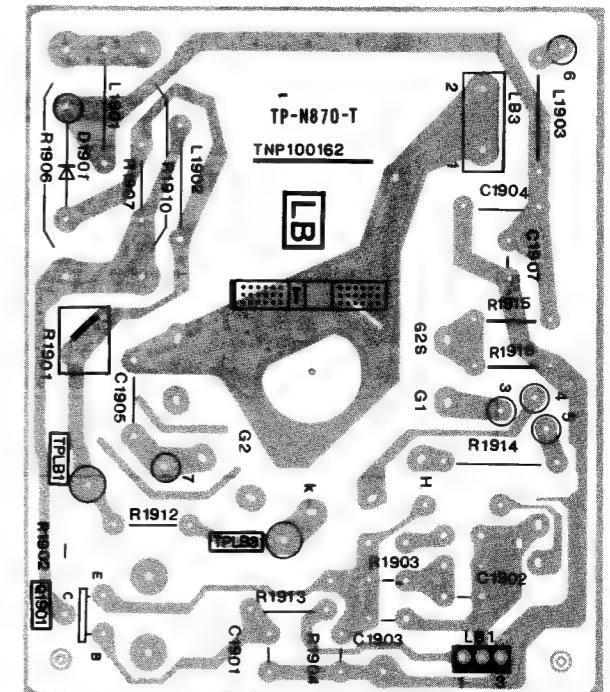
F-BOARD TNP100066



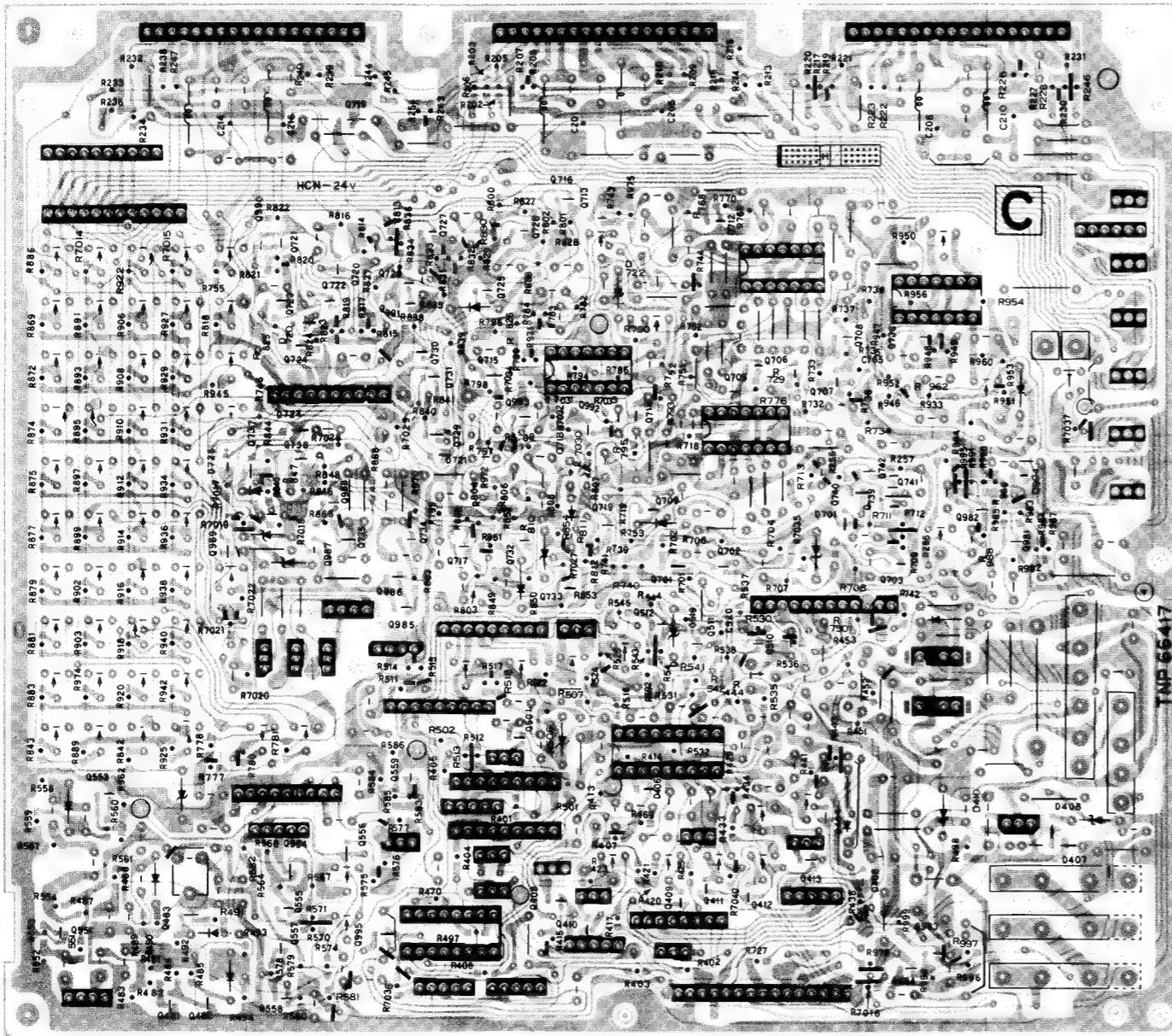
**CHIP TRANSISTOR
PIN CONNECTION**
2SB709
2SD601**LR-BOARD TNP60975CB**

ADDRESS INFORMATION
C ... COMPONENT SIDE
F ... FOIL SIDE

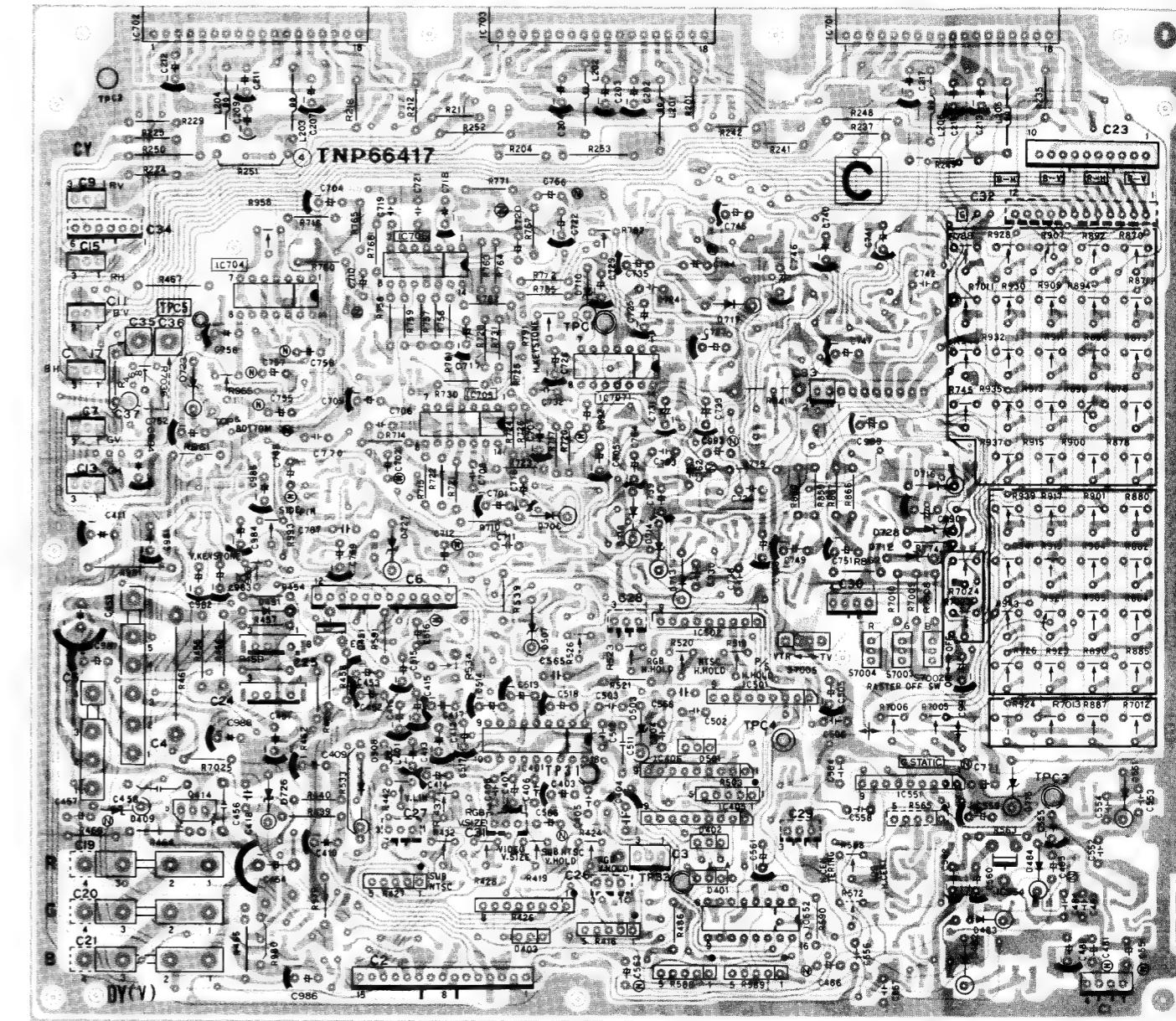
B-BOARD		
I.C		
IC10	C-5	(C)
IC11	C-5	(C)
IC12	B-5	(C)
IC13	B-5	(C)
IC14	A-5	(C)
IC15	B-3	(C)
IC16	B-3	(C)
IC17	B-4	(C)
IC18	B-2	(C)
IC19	A-2	(C)
Transistor		
Q9	A-7	(F)
Q10	A-7	(F)
Q11	A-6	(F)
Q12	A-7	(F)
Q13	B-6	(F)
Q14	B-6	(F)
Q15	B-7	(F)
Q16	B-6	(F)
Q17	B-6	(F)
Q18	B-7	(F)
Q19	B-6	(F)
Q20	C-6	(F)
Q21	C-7	(F)
Q22	C-7	(F)
Q23	C-7	(F)
Q24	C-7	(F)
Q25	C-7	(F)
Q26	C-7	(F)
Q27	C-7	(F)
Q28	C-7	(F)
Q29	C-7	(F)
Q30	C-7	(F)
Q31	C-7	(F)
Q32	C-7	(F)
Q33	B-7	(F)
Q34	B-7	(F)
Q35	B-8	(F)
Q36	B-7	(F)
Q37	B-7	(F)
Q38	B-8	(F)
Q39	B-8	(F)
Q40	B-8	(F)
Q41	B-8	(F)
Q42	A-8	(F)
Q43	B-8	(F)
Q44	B-8	(F)
Q45	A-8	(F)
Q46	B-8	(F)
Q47	B-9	(F)
Q48	B-9	(F)
Q49	C-9	(F)
Q50	B-9	(F)
Q51	B-9	(F)
Q52	C-9	(F)
Q53	C-8	(F)
Q54	C-7	(F)
VR		
R133	C-4	(C)
R186	C-4	(C)
R192	C-4	(C)
R1103	C-2	(C)
R1107	C-2	(C)
R1120	B-1	(C)
R1141	B-1	(C)
Test Point		
TPB1	A-5	(C)
TPB2	A-5	(C)
TPB3	A-5	(C)
TPB4	B-1	(C)
TPB5	B-2	(C)
TPB6	A-2	(C)
TPB7	A-2	(C)
TPB8	A-2	(C)
TPB10	B-3	(C)
TPB11	C-2	(C)

Q-BOARD TNP51568BZ**LG-BOARD TNP60976CB****LB-BOARD TNP100162AA**

C-BOARD TNP66417AZ
(FOIL SIDE)



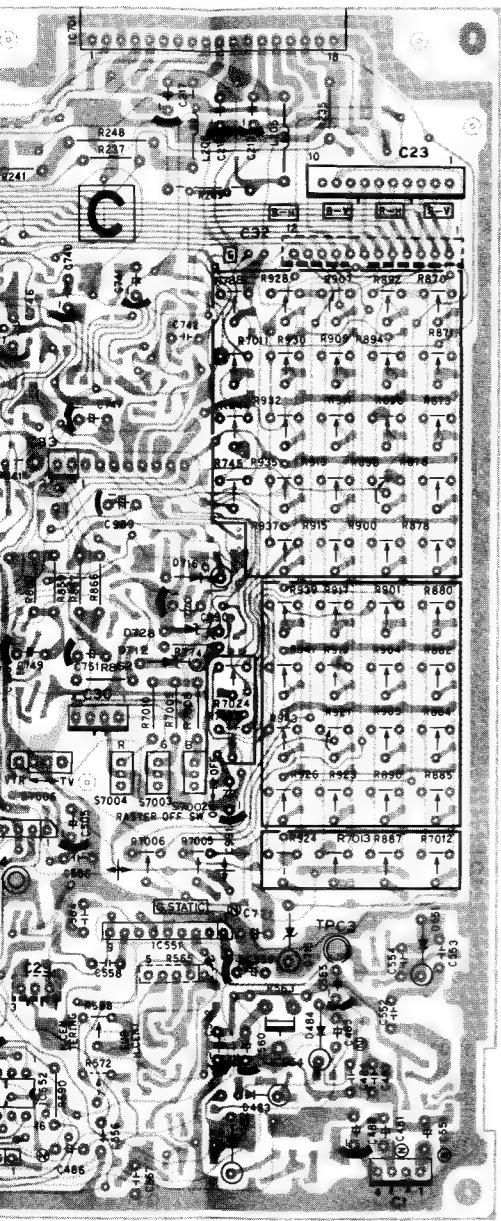
C-BOARD TNP66417AZ
(COMPONENT SIDE)



A diagram showing a rectangular component with two pins extending from its bottom edge. The top-right corner is labeled 'C' and the bottom-left corner is labeled 'B'.

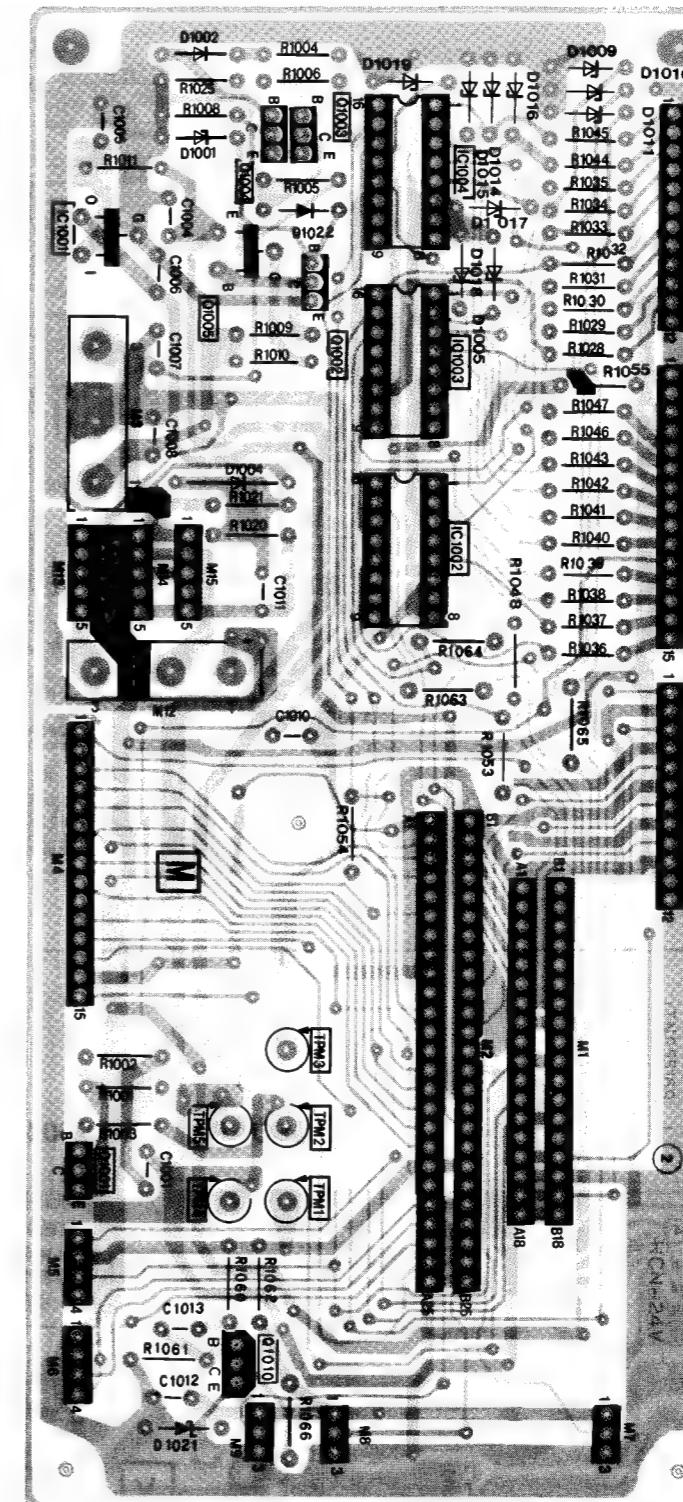
2SB709
2SD601

C
E
2SB709
2SD601



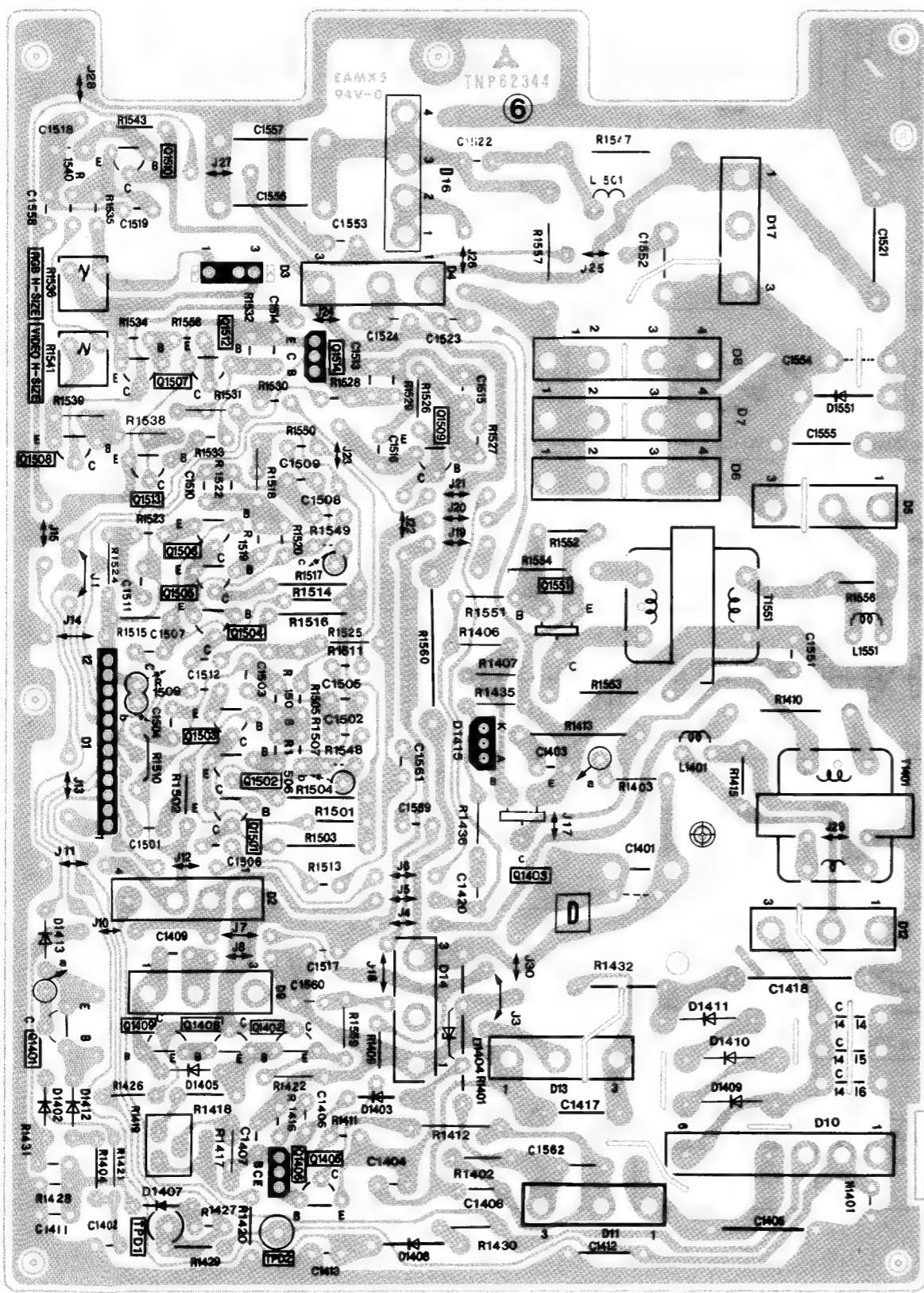
C-BOARD			
I.C			
IC401	B-6 C	Q726	C-2 F
IC405	A-7 C	Q727	C-2 F
IC406	A-7 C	Q728	C-2 F
IC501	B-7 C	Q729	B-2 F
IC502	B-7 C	Q730	C-2 F
IC551	A-7 C	Q731	C-2 F
IC552	A-7 C	Q732	B-2 F
IC554	A-6 C	Q733	B-2 F
IC704	C-6 C	Q734	B-2 F
IC705	C-6 C	Q735	B-2 C
IC706	C-6 C	Q736	C-4 C
IC707	C-6 C	Q737	C-2 F
		Q738	B-2 F
		Q739	B-3 F
		Q740	B-3 F
		Q741	B-4 F
		Q742	B-4 F
		Q981	B-4 F
		Q982	B-4 F
		Q983	A-4 F
		Q984	A-3 F
		Q985	B-2 F
		Q986	B-2 F
		Q987	B-2 F
		Q988	B-2 F
		Q989	B-1 F
		Q990	C-2 F
		Q991	C-2 F
		Q992	C-3 F
		Q993	C-2 F
		Q994	B-4 F
		Q995	A-2 F
Transistor			
Q408	A-2 F	R419	A-6 C
Q409	A-3 F	R424	A-6 C
Q410	A-1 F	R428	A-6 C
Q411	A-3 F	R432	A-6 C
Q412	A-3 F	R437	A-6 C
Q413	A-3 F	R442	A-6 C
Q414	A-5 C	R519	B-7 C
Q451	B-6 C	R520	B-7 C
Q481	A-1 F	R523	B-7 C
Q482	A-1 F	R534	B-6 C
Q483	A-1 F	R568	A-7 C
Q510	B-3 F	R745	C-8 C
Q511	B-3 F	R787	C-6 C
Q512	B-3 F	R788	C-8 C
Q551	A-1 F	R791	C-6 C
Q553	A-1 F	R792	C-8 C
Q559	B-2 F	R870	C-8 C
Q701	B-3 F	R871	C-8 C
Q702	B-3 F	R873	C-8 C
Q703	B-4 F	R876	C-8 C
Q705	C-3 F	R878	C-8 C
Q706	C-3 F		
Q707	C-3 F		
Q708	C-3 F		
Q709	B-3 F		
Q712	C-3 F		
Q713	C-3 F		
Q714	C-3 F		
Q715	C-2 F		
Q716	C-2 F		
Q717	B-2 F		
Q718	B-3 F		
Q719	B-3 F		
Q720	C-2 F		
Q721	C-2 F		
Q722	C-2 F		
Q723	C-2 F		
Q724	C-2 F		
Q725	C-2 F		
VR			
R419	A-6 C	TPC1	C-7 C
R424	A-6 C	TPC2	C-5 C
R428	A-6 C	TPC3	A-8 C
R432	A-6 C	TPC4	A-7 C
R437	A-6 C	TP31	A-6 C
R442	A-6 C	TP33	A-7 C
Test Point			
TPC1	C-7 C		
TPC2	C-5 C		
TPC3	A-8 C		
TPC4	A-7 C		
TP31	A-6 C		
TP33	A-7 C		

ADDRESS INFORMATION
C ... COMPONENT SIDE
F ... FOIL SIDE



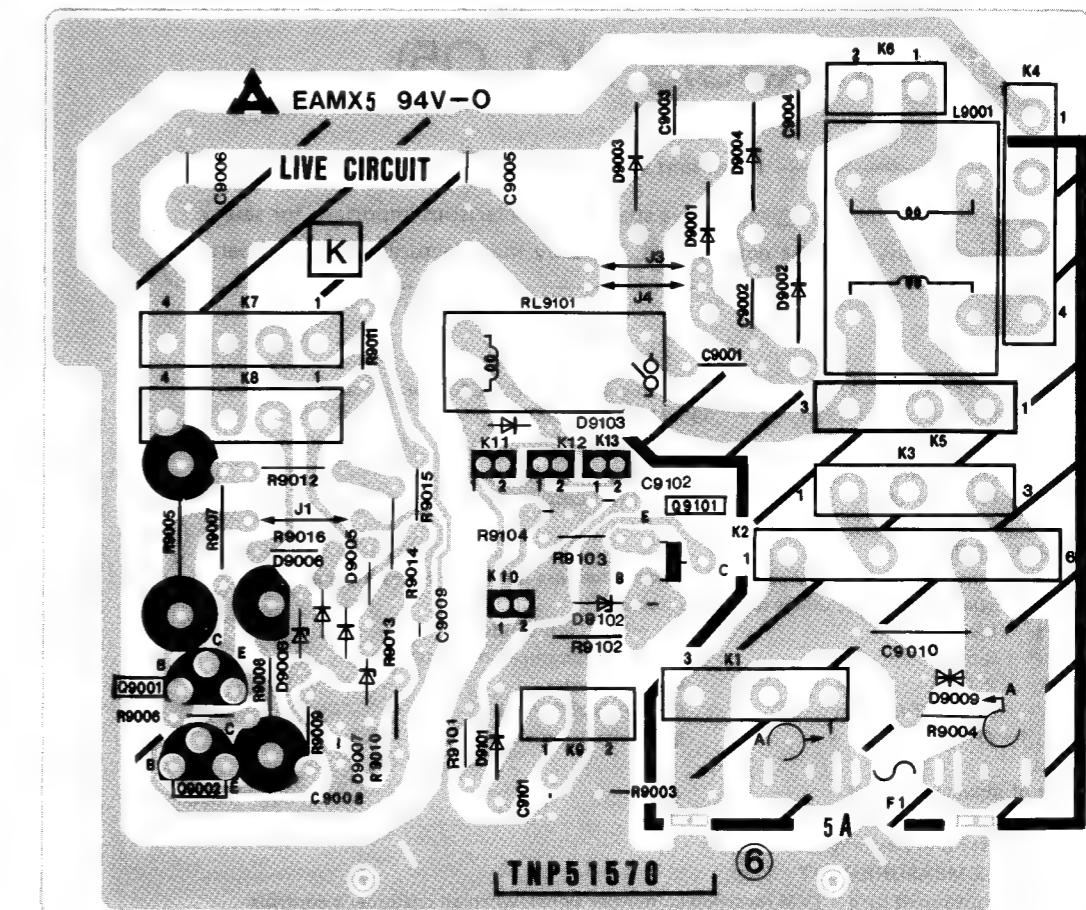
Test Point	Transistor	I.C.
Q1003		
Q1004		IC1004
Q1005		IC1001
Q1002		IC1003
		IC1002
TPM3		
TPM5	TPM2	
TPM4	TPM1	Q1001
		Q1010

D-BOARD TNP62344A2

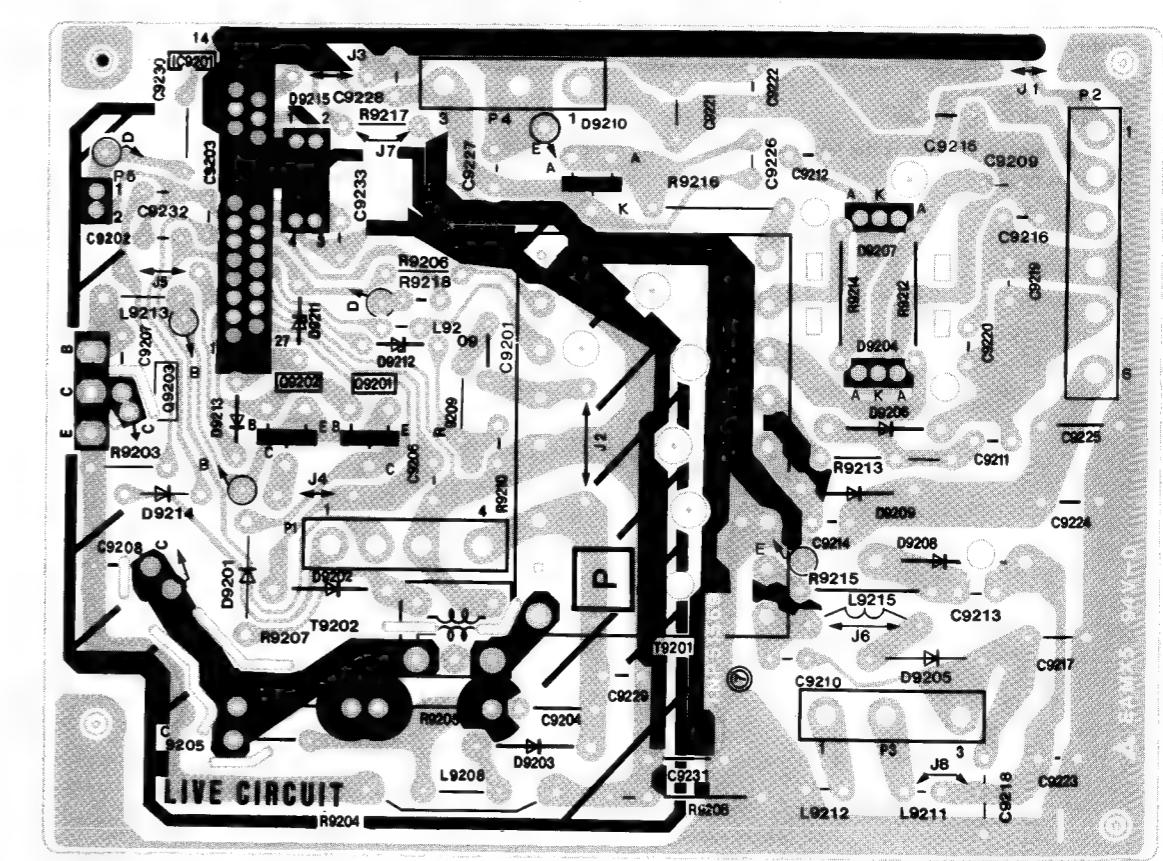


Test Point	VR	Transistor
		Q1510
	R1536	
	R1541	Q1512 Q1514 Q1507
		Q1509 Q1508
		Q1513
		Q1506
		Q1505 Q1551
		Q1504
		Q1503
		Q1502
		Q1403 Q1501
		Q1409 Q1408 Q1401 Q1408
		Q1406 Q1405
TPD1		
TPD2		

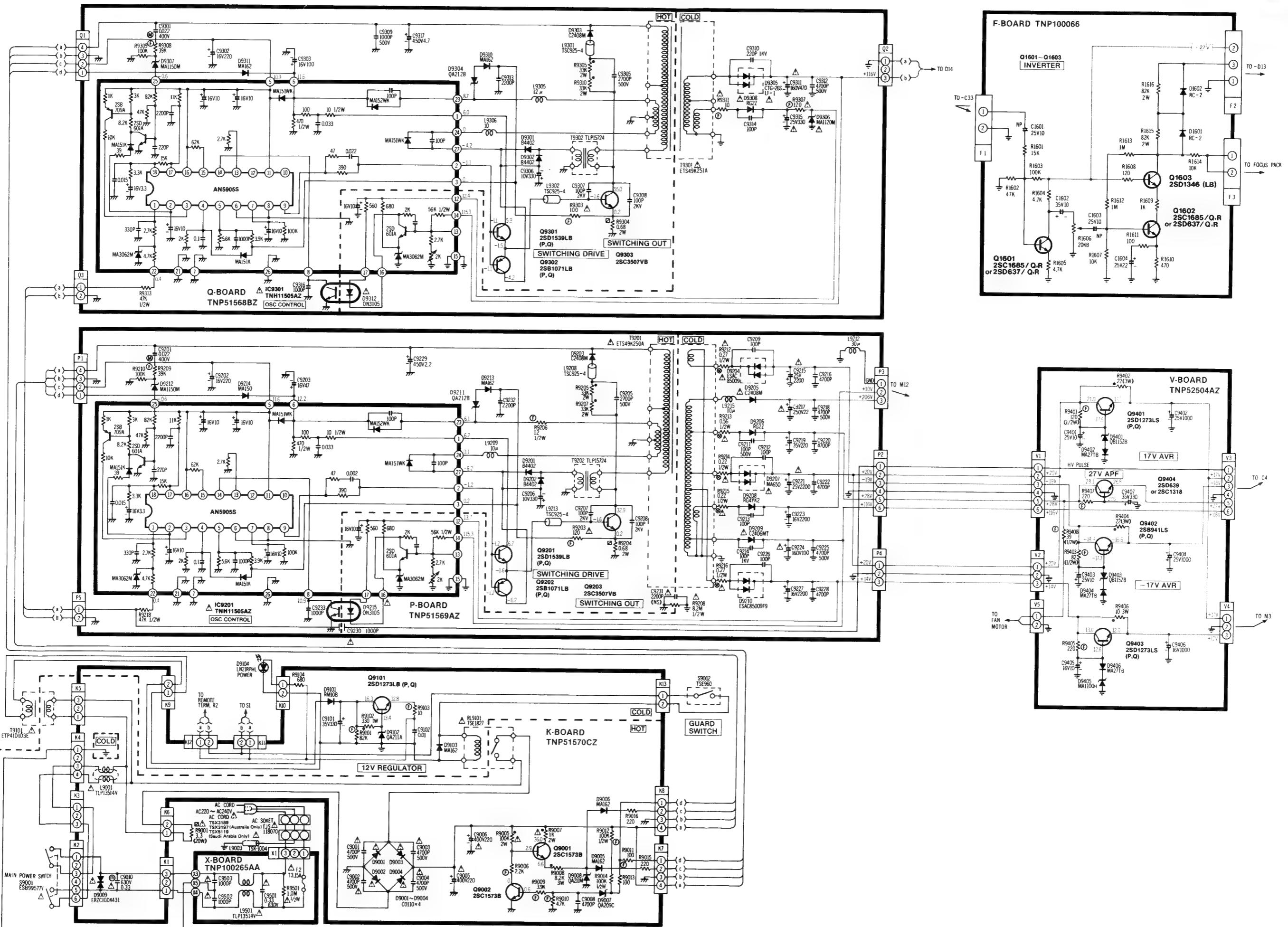
K-BOARD TNP51570BZ



P-BOARD TNP51569BZ



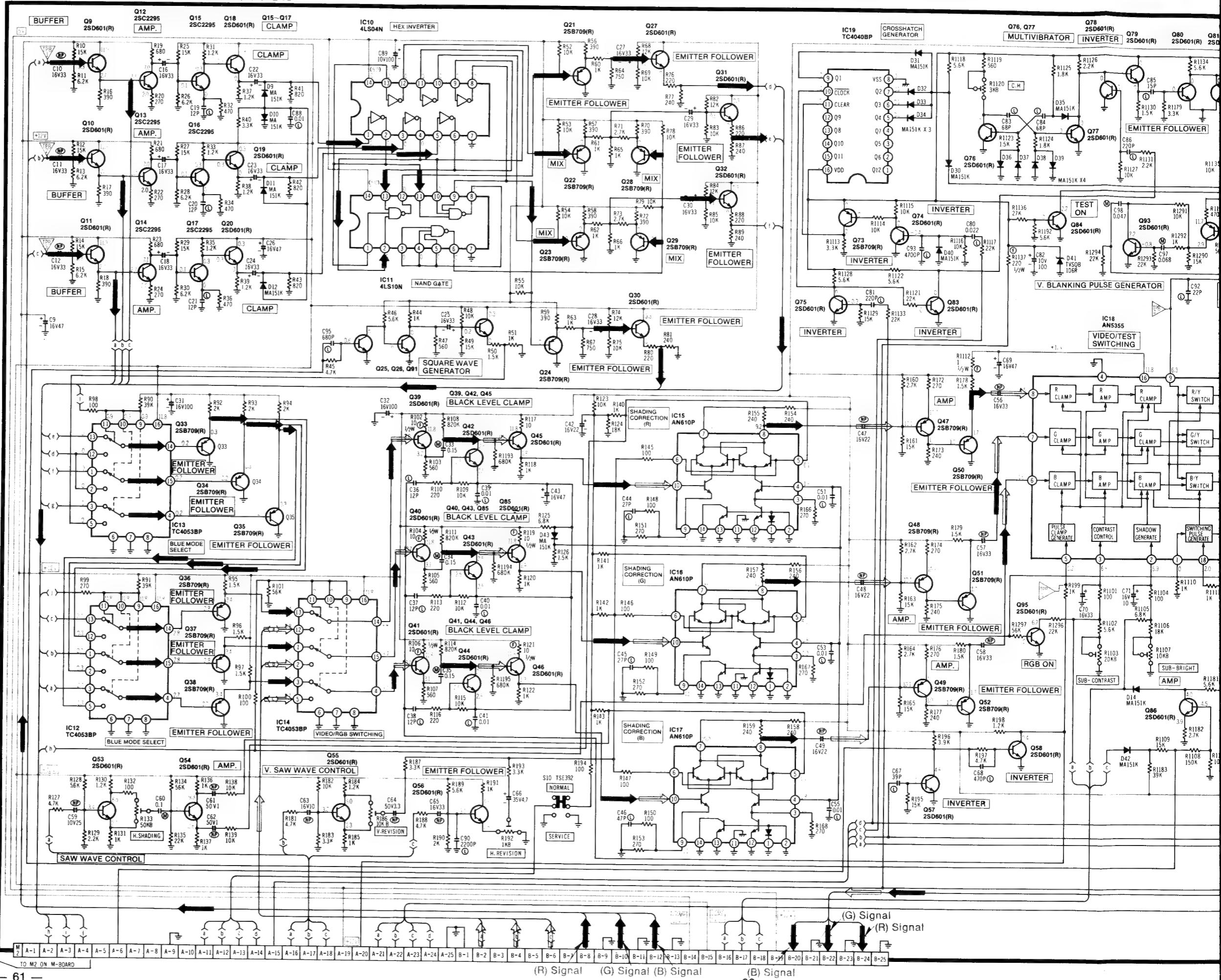
F/K/P/Q/V/X-BOARD Section

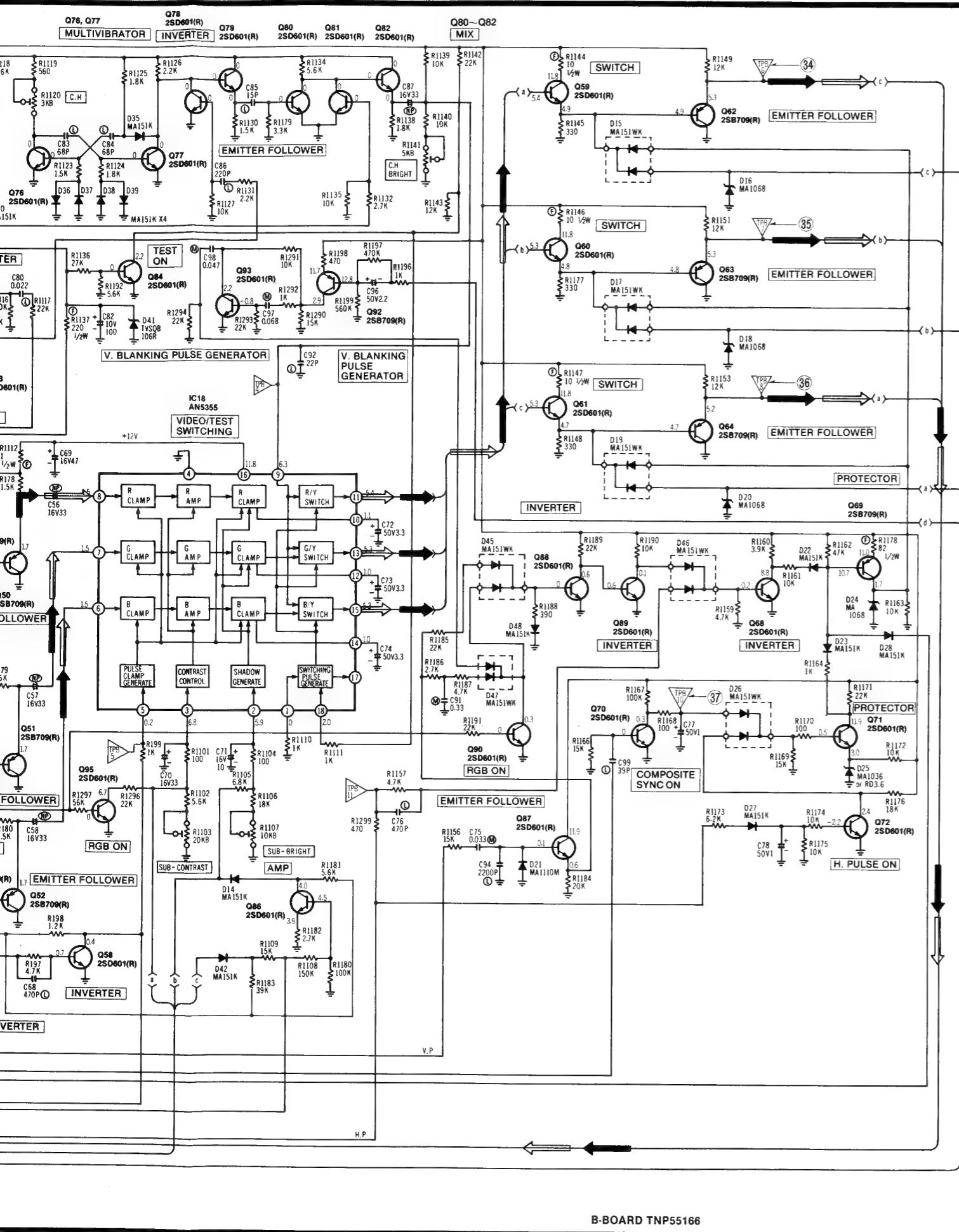


B/S/LR/LG/LB-BOARD Section

← Video Signal

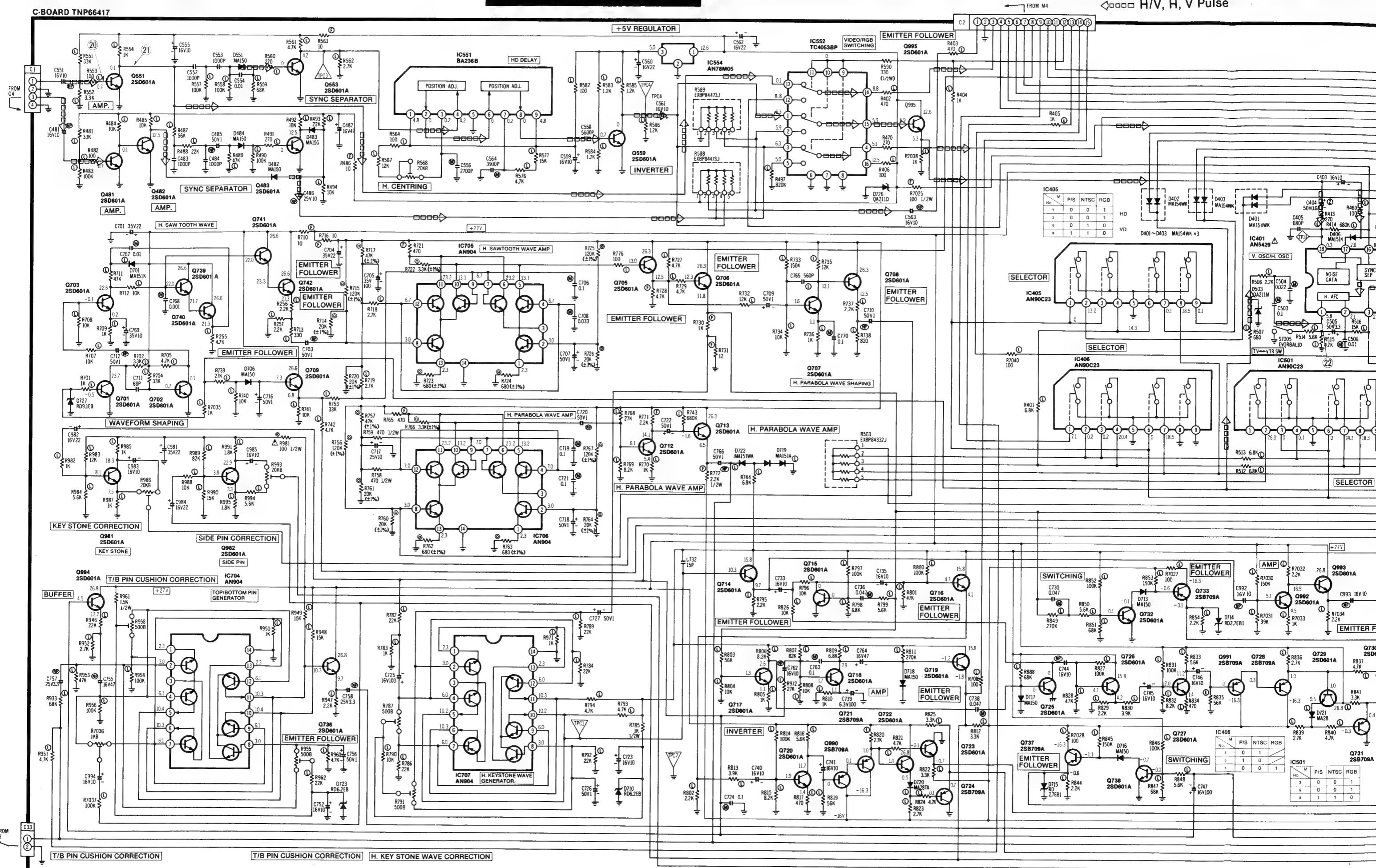
← R · G · B Signal

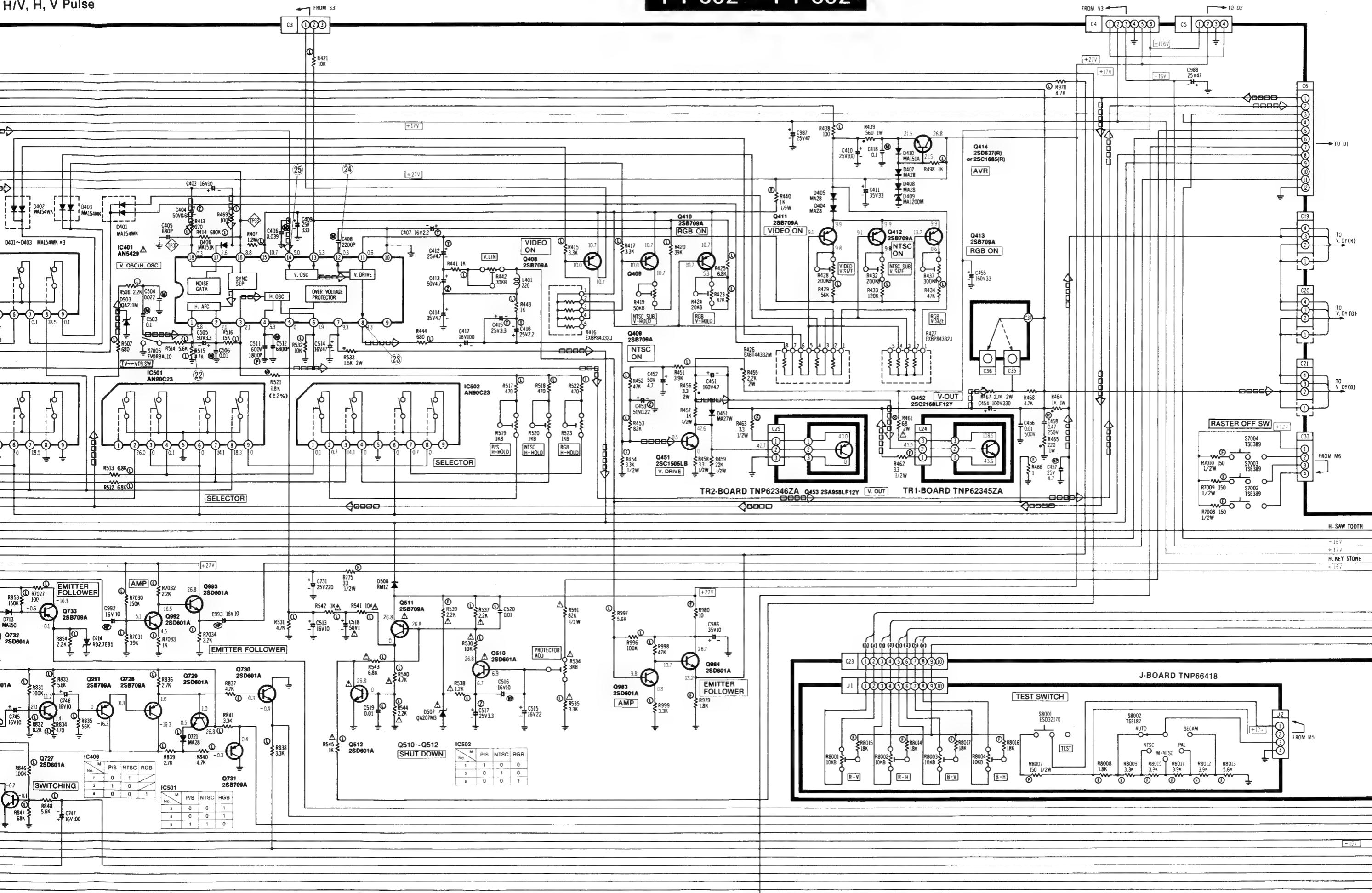




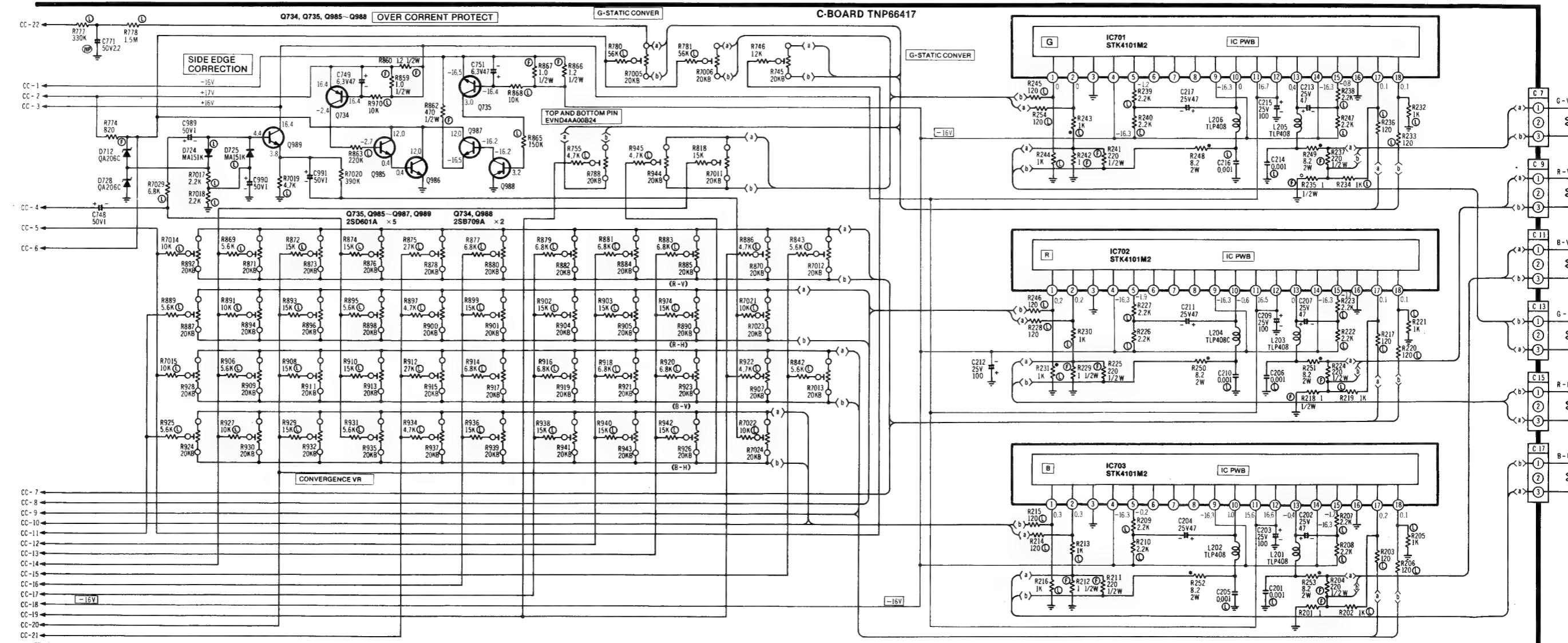
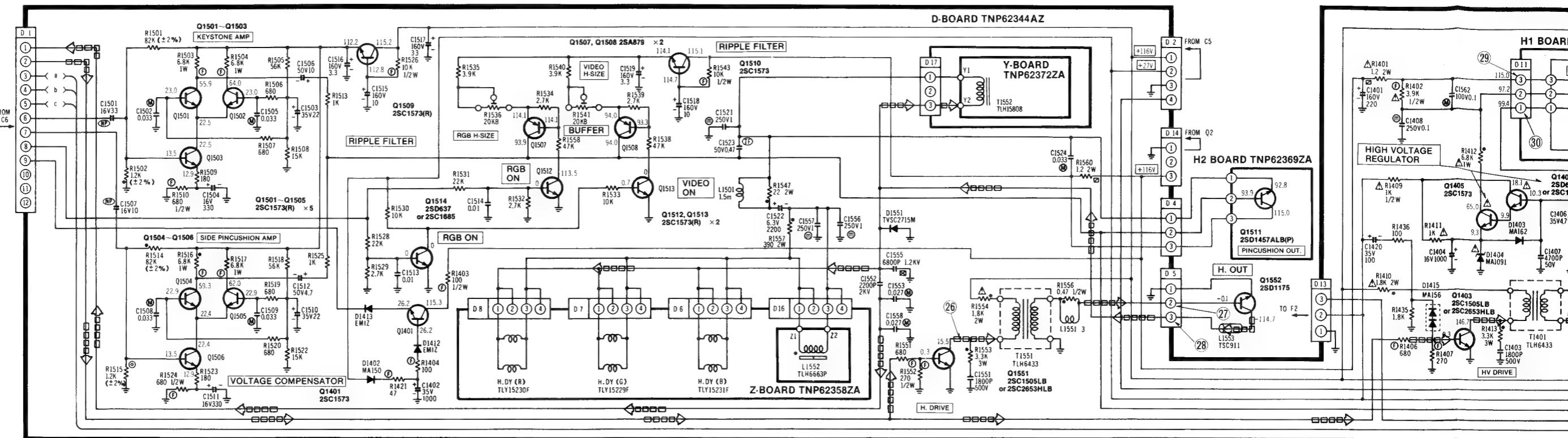
C/J/TR1/TR2-BOARD Section

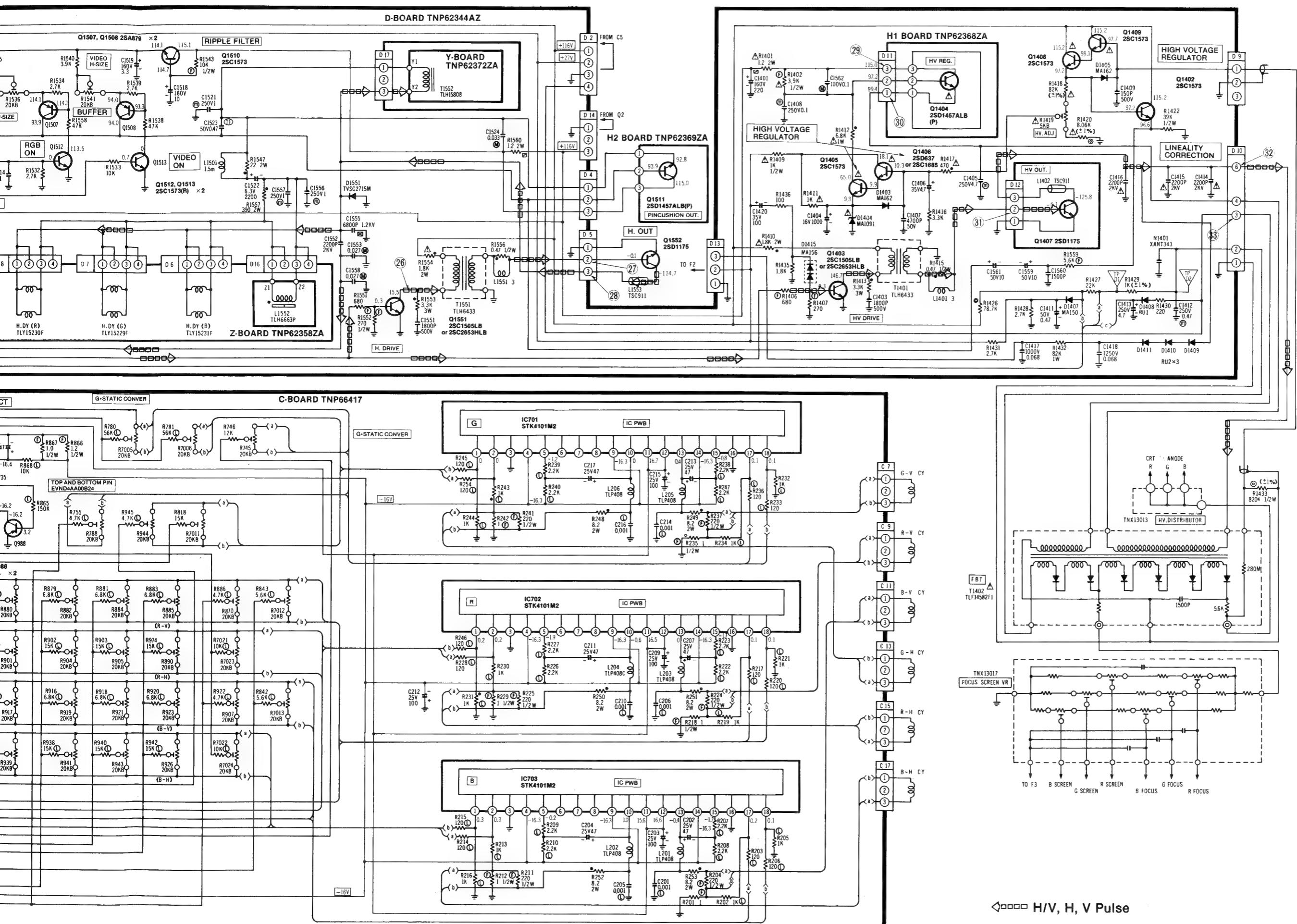
H/V, H, V Pulse





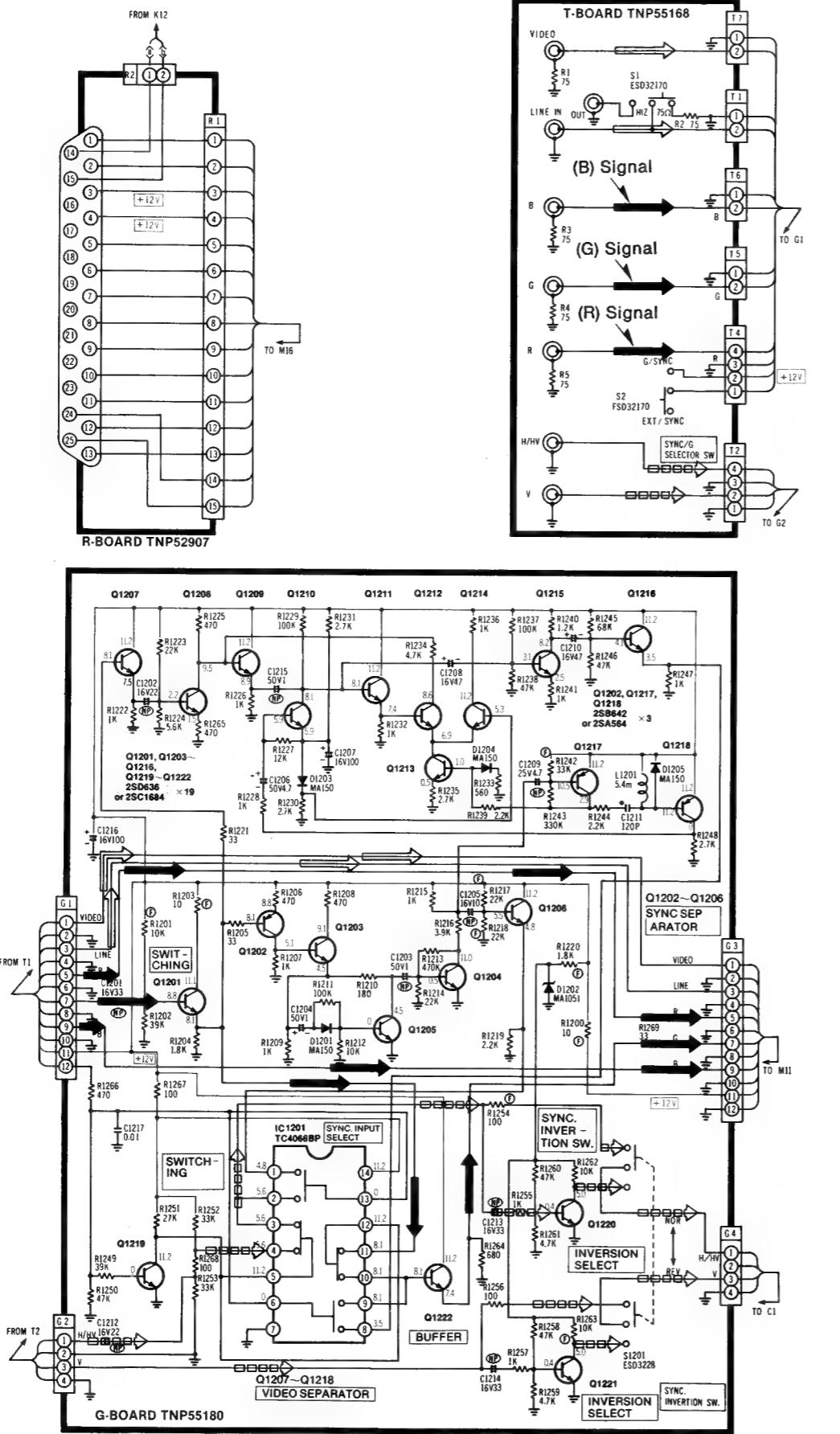
C/D/Y/Z/H1/H2-BOARD Section





◆ H/V, H, V Pulse

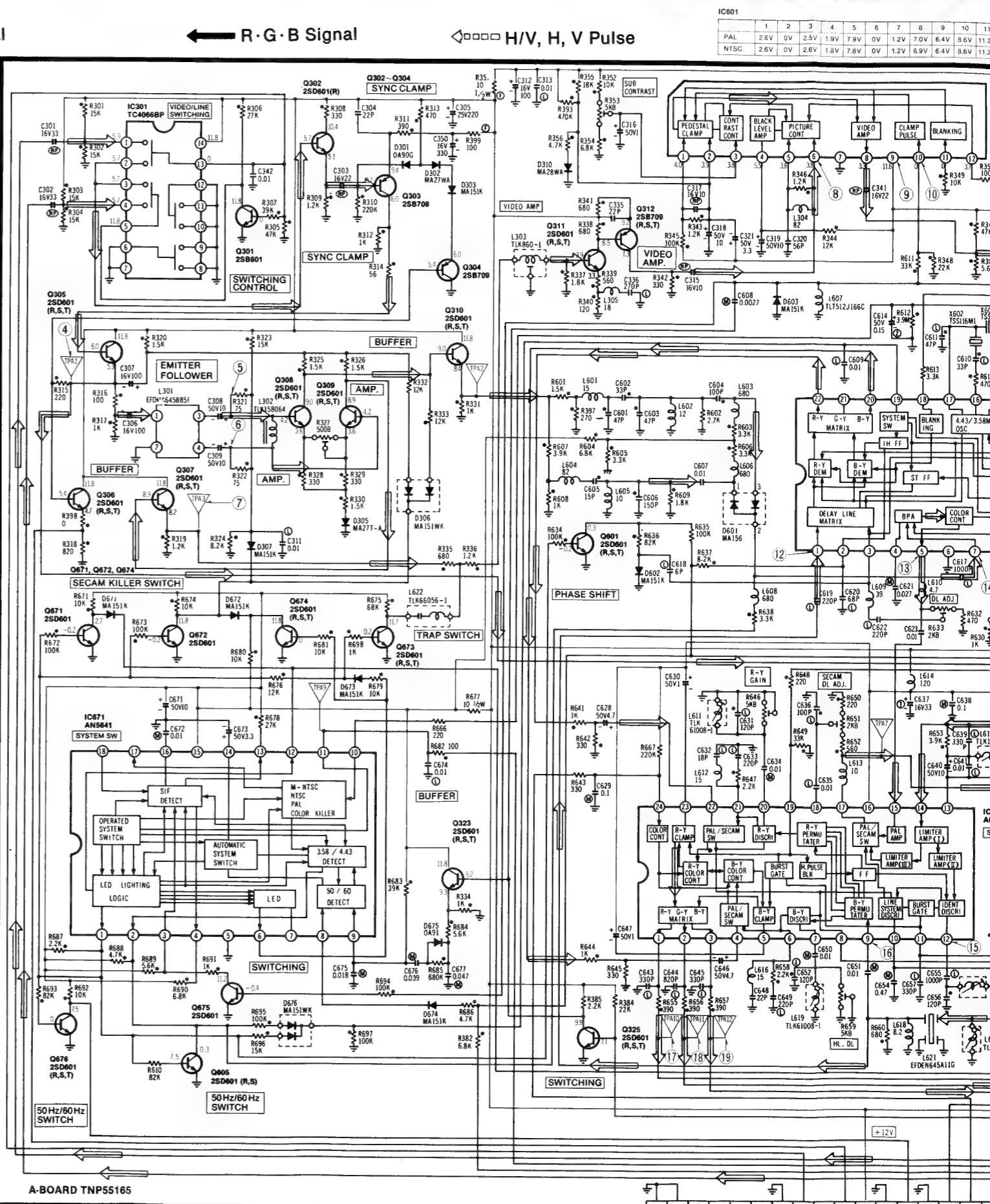
A/G/R/T-BOARD Section



Video Signal

R·G·B Signal

H/V, H, V Pulse



IC601																	
PAL	2.6V	0V	2.5V	1.9V	7.9V	0V	1.2V	7.0V	6.4V	8.6V	11.2V						
SECAM	7.6V	0.3V	11.6V	11.8V	0V	0.2V	11.7V	0.2V	11.9V	7.4V	11.2V	0.1V	11.8V	6.6V	11.8V	5.1V	2.7V
NTSC	2.6V	0.3V	11.6V	11.8V	0V	0V	1.2V	0.2V	11.9V	9.4V	11.2V	1.0V	11.8V	6.6V	11.8V	5.1V	0V
	9.1V	11.6V	11.8V	0V	0V	1.2V	0.2V	11.9V	9.4V	11.2V	1.5V	11.8V	11.8V	11.8V	5.1V	0V	3.3V

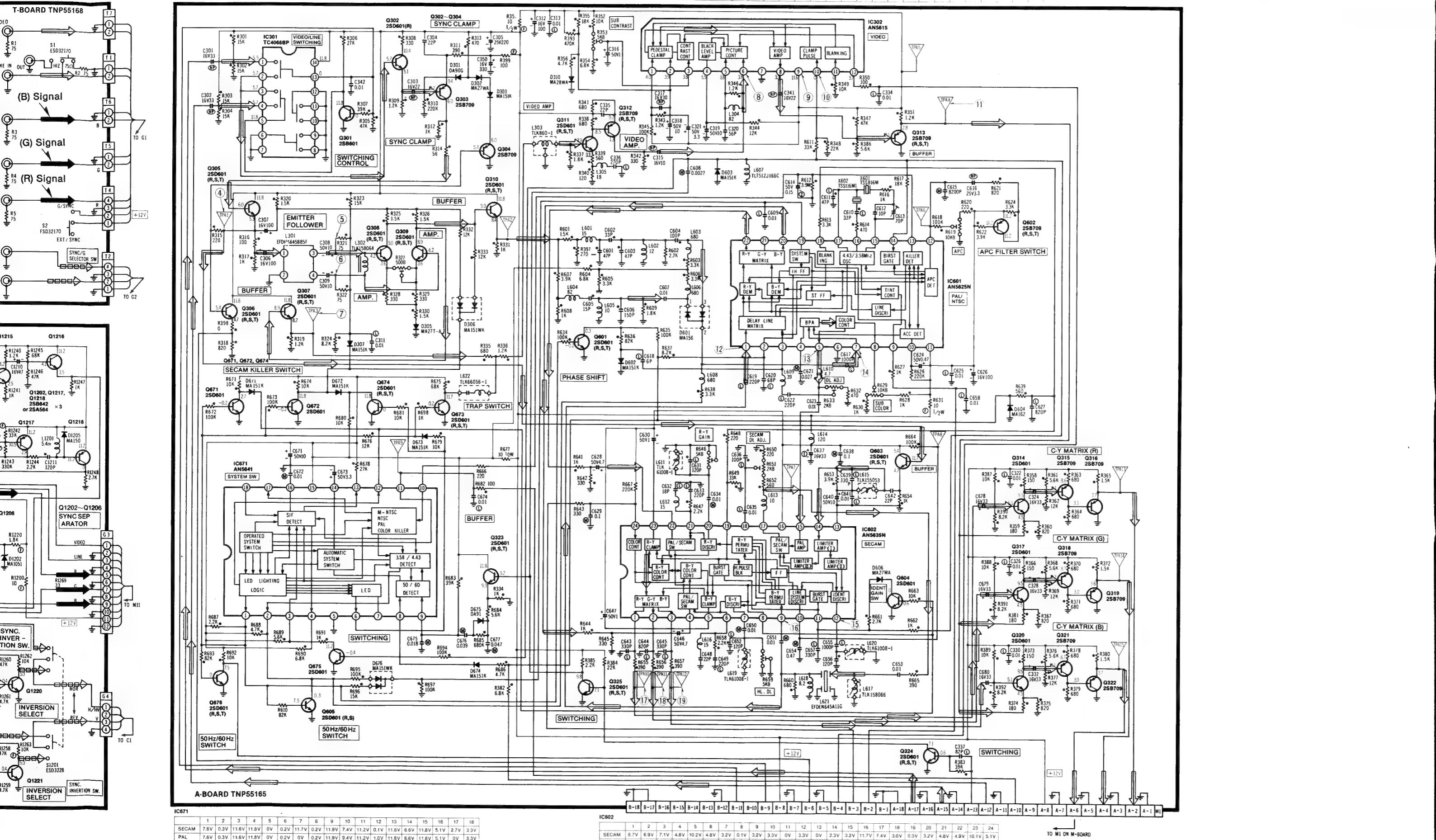
IC602																	
PAL	6.7V	6.9V	7.1V	4.8V	10.2V	4.8V	3.2V	0.1V	3.2V	3.3V	0V	3.3V	0V	2.3V	1.1V	1.1V	1.1V
SECAM	6.7V	7.0V	6.4V	4.8V	10.2V	4.7V	3.2V	0V	3.2V	3.3V	0V	3.3V	0V	2.3V	1.1V	1.1V	1.1V
	7.0V	7.0V	6.4V	4.8V	10.2V	4.7V	3.2V	0V	3.2V	3.3V	0V	3.3V	0V	2.3V	1.1V	1.1V	1.1V

← Video Signal

← R·G·B Signal

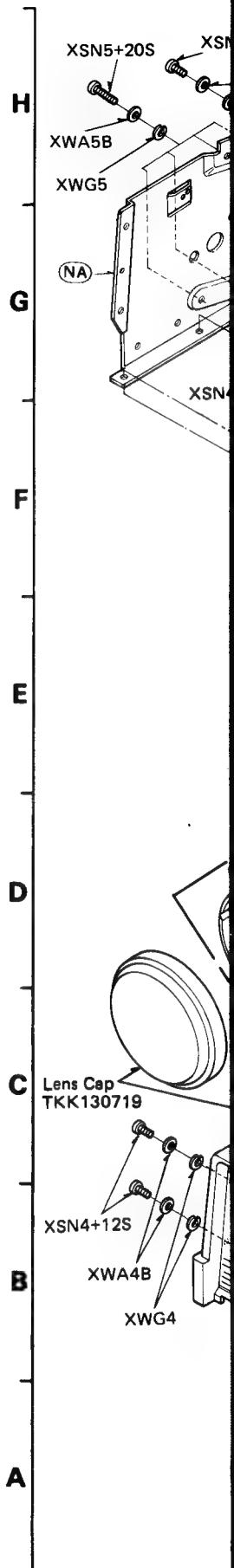
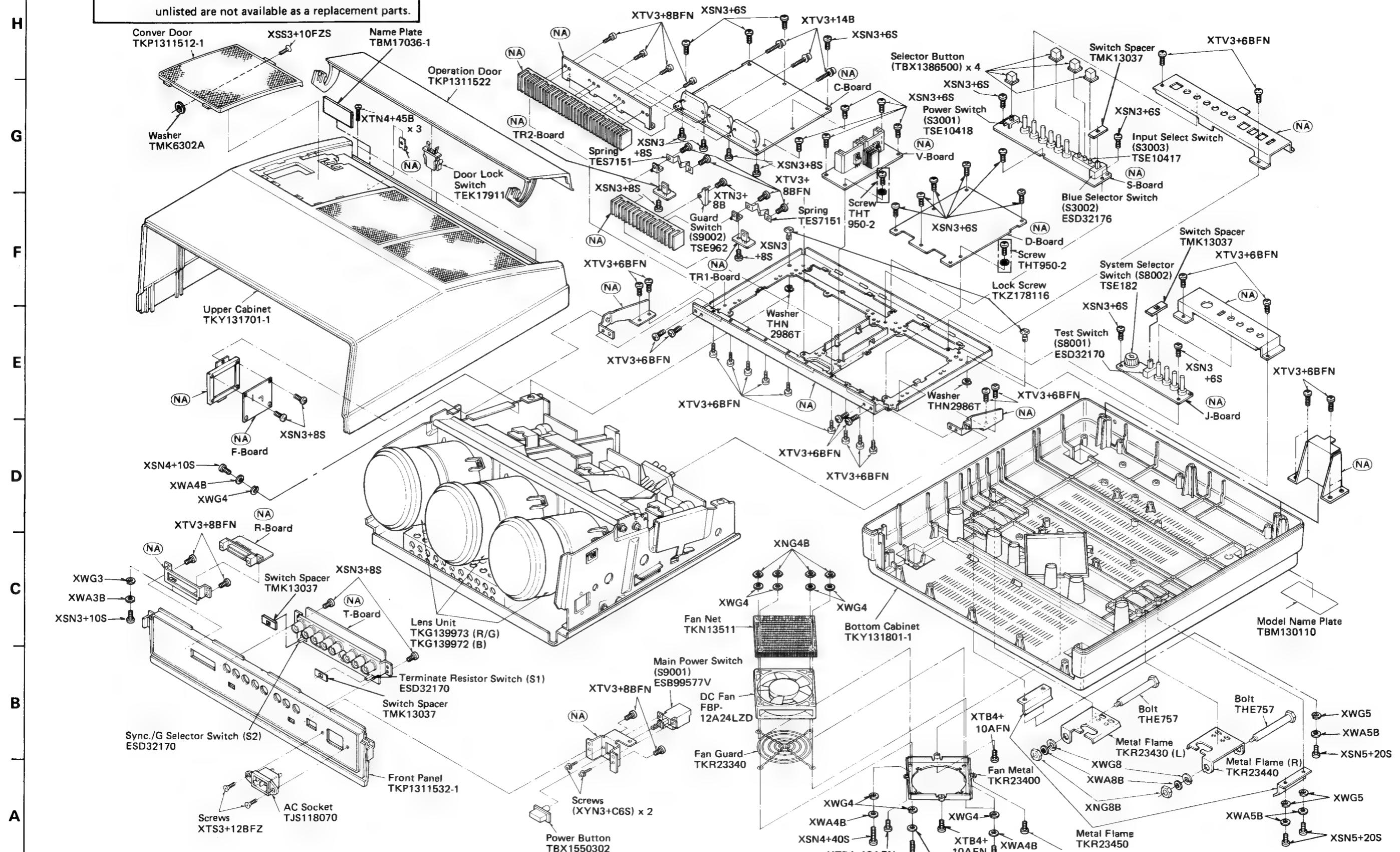
↔ H/V, H, V Pulse

IC601																						
SECAM	0.3V	11.6V	11.8V	0V	0.2V	11.7V	11.9V	7.4V	11.2V	0.1V	11.8V	6.6V	5.1V	2.7V	3.3V							
PAL	0.3V	11.6V	11.8V	0V	0.2V	11.9V	9.4V	11.2V	1.0V	11.8V	6.6V	5.1V	0V	3.3V								
NTSC	0.2V	9.1V	11.6V	11.8V	0V	0V	1.2V	0.2V	11.9V	9.4V	11.2V	1.5V	11.8V	11.6V	5.1V	0V	3.3V					

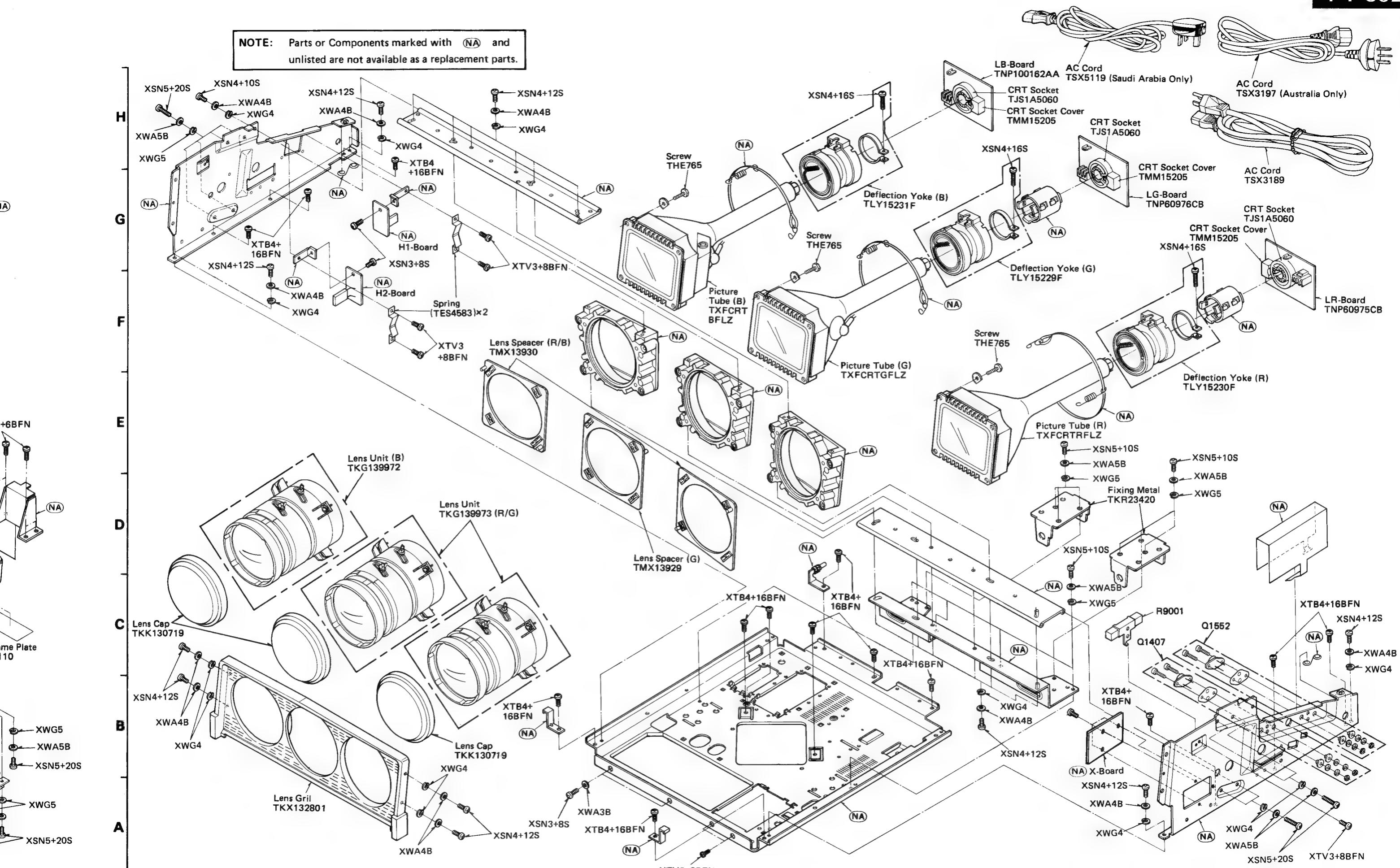


EXPLODED VIEWS

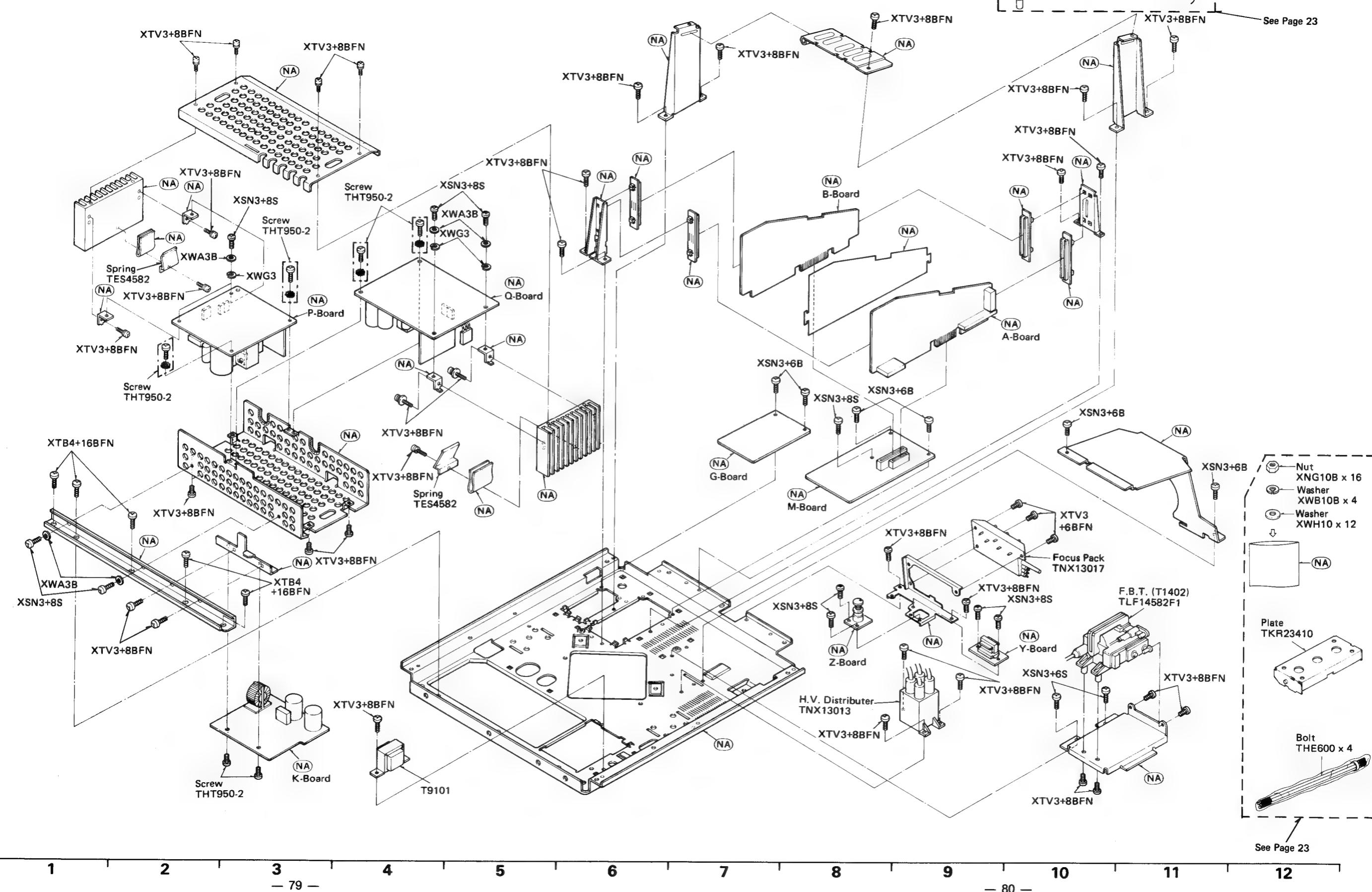
NOTE: Parts or Components marked with **(NA)** and unlisted are not available as a replacement parts

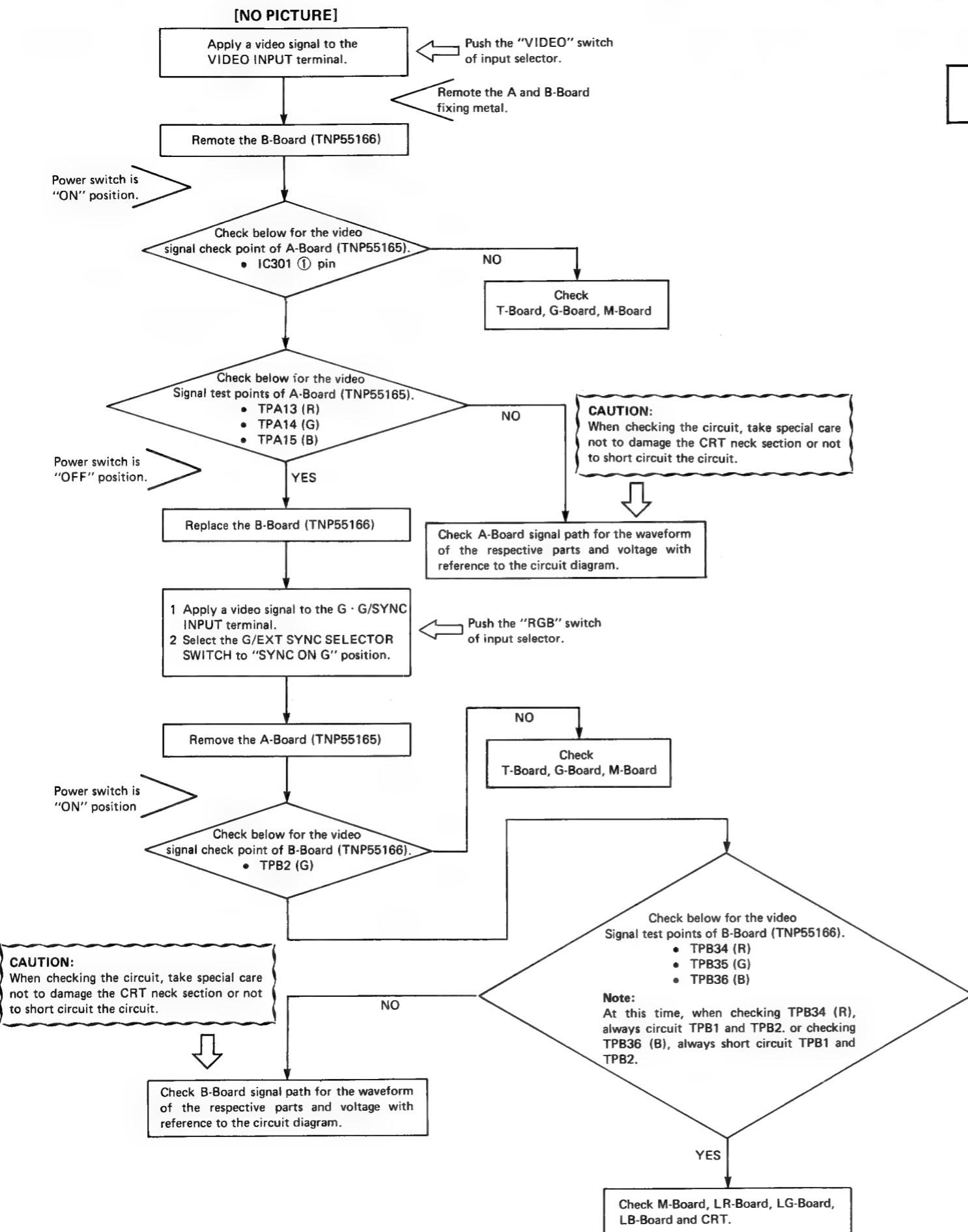
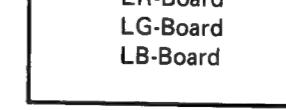
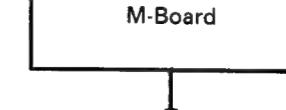
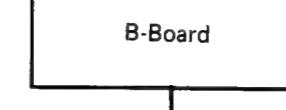
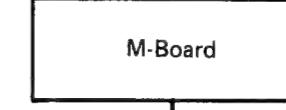
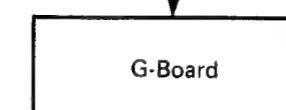
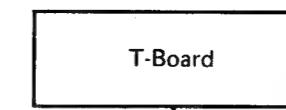
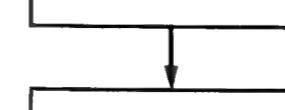
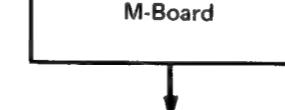
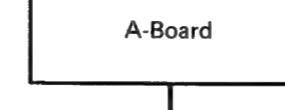
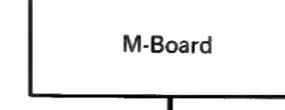
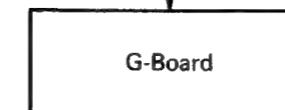
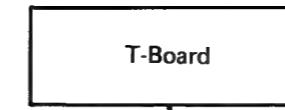


NOTE: Parts or Components marked with **(NA)** and unlisted are not available as a replacement parts.



NOTE: Parts or Components marked with **(NA)** and unlisted are not available as a replacement parts.



TROUBLESHOOTING**Signal Road****ABBREVIATION OF PART NAME AND DESCRIPTION**

PART NAME & DESCRIPTION	
TYPE	ALLOWANCE
C Carbon	F ± 1%
F Fuse	J ± 5%
M Metal Oxide	K ± 10%
S Solid	M ± 20%
W Wire Wound	G ± 2%

Part No. ERD25TJ104 C Description 100K ③ 1/4W

CAPACITOR	
TYPE	ALLOWANCE
C Ceramic	C ± 0.25pF
E Electrolytic	D ± 0.5pF
P Polyester	F ± 1pF
S Styrol	J ± 5%
T Tantalum	K ± 10%
	L ± 15%
	M ± 20%
	P +100% -0%
	Z +80% -20%

Part No. ECKF1H103ZF C Description 0.01μF ② 50V

Nut XNG10B x 16
Washer XWB10B x 4
Washer XWH10 x 12

Plate TKR23410

Bolt THE600 x 4

See Page 23

REPLACEMENT PARTS LIST

Important safety notice

Components identified by **▲** mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

Note: All the printed circuit boards except LR-Board, LG-Board and LB-Board are not available as a complete printed circuit board.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
RESISTORS					
R1	ERD25FJ750	C 750HM, J, 1/4W	R47	ERJ8GCYJ561	M 5600HM, J, 1/8W
R2	ERD25FJ750	C 750HM, J, 1/4W	R48	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R3	ERD25FJ750	C 750HM, J, 1/4W	R49	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R4	ERD25FJ750	C 750HM, J, 1/4W	R50	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R5	ERD25FJ750	C 750HM, J, 1/4W	R51	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R10	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R52	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R11	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R53	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R12	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R54	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R13	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R55	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R14	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R56	ERJ8GCYJ391	M 3900HM, J, 1/8W
R15	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R57	ERJ8GCYJ391	M 3900HM, J, 1/8W
R16	ERJ8GCYJ391	M 3900HM, J, 1/8W	R58	ERJ8GCYJ391	M 3900HM, J, 1/8W
R17	ERJ8GCYJ391	M 3900HM, J, 1/8W	R59	ERJ8GCYJ391	M 3900HM, J, 1/8W
R18	ERJ8GCYJ391	M 3900HM, J, 1/8W	R60	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R19	ERJ8GCYJ681	M 6800HM, J, 1/8W	R61	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R20	ERJ8GCYJ271	M 2700HM, J, 1/8W	R62	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R21	ERJ8GCYJ681	M 6800HM, J, 1/8W	R63	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R22	ERJ8GCYJ271	M 2700HM, J, 1/8W	R64	ERJ8GCYJ751	M 7500HM, J, 1/8W
R23	ERJ8GCYJ681	M 6800HM, J, 1/8W	R65	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R24	ERJ8GCYJ271	M 2700HM, J, 1/8W	R66	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R25	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R67	ERJ8GCYJ751	M 7500HM, J, 1/8W
R26	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R68	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R27	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R69	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R28	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R70	ERJ8GCYJ391	M 3900HM, J, 1/8W
R29	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R71	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R30	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W	R72	ERJ8GCYJ391	M 3900HM, J, 1/8W
R31	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R73	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R32	ERJ8GCYJ471	M 4700HM, J, 1/8W	R74	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R33	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R75	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R34	ERJ8GCYJ471	M 4700HM, J, 1/8W	R76	ERJ8GCYJ221	M 2200HM, J, 1/8W
R35	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R77	ERJ8GCYJ241	M 2400HM, J, 1/8W
R36	ERJ8GCYJ471	M 4700HM, J, 1/8W	R78	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R37	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R79	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R38	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R80	ERJ8GCYJ221	M 2200HM, J, 1/8W
R39	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R81	ERJ8GCYJ241	M 2400HM, J, 1/8W
R40	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R82	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R41	ERJ8GCYJ821	M 8200HM, J, 1/8W	R83	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R42	ERJ8GCYJ821	M 8200HM, J, 1/8W	R84	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R43	ERJ8GCYJ821	M 8200HM, J, 1/8W	R85	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R44	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R86	ERJ8GCYJ221	M 2200HM, J, 1/8W
R45	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R87	ERJ8GCYJ241	M 2400HM, J, 1/8W
R46	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R88	ERJ8GCYJ221	M 2200HM, J, 1/8W
			R89	ERJ8GCYJ241	M 2400HM, J, 1/8W
			R90	ERJ8GCYJ393	M 39KOHM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R91	ERJ8GCYJ393	M 39KOHM, J, 1/8W	R140	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R92	ERJ8GCYJ202	M 2KOHM, J, 1/8W	R141	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R93	ERJ8GCYJ202	M 2KOHM, J, 1/8W	R142	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R94	ERJ8GCYJ202	M 2KOHM, J, 1/8W	R143	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R95	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R145	ERJ8GCYJ101	M 1000HM, J, 1/8W
R96	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R146	ERJ8GCYJ101	M 1000HM, J, 1/8W
R97	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R147	ERJ8GCYJ101	M 1000HM, J, 1/8W
R98	ERJ8GCYJ101	M 1000HM, J, 1/8W	R148	ERJ8GCYJ101	M 1000HM, J, 1/8W
R99	ERJ8GCYJ271	M 2700HM, J, 1/8W	R149	ERJ8GCYJ101	M 1000HM, J, 1/8W
R100	ERJ8GCYJ101	M 1000HM, J, 1/8W	R150	ERJ8GCYJ101	M 1000HM, J, 1/8W
R101	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R151	ERJ8GCYJ271	M 2700HM, J, 1/8W
R102	ERDS1FJ100	C 100HM, J, 1/2W	R152	ERJ8GCYJ271	M 2700HM, J, 1/8W
R103	ERJ8GCYJ561	M 5600HM, J, 1/8W	R153	ERJ8GCYJ271	M 2700HM, J, 1/8W
R104	ERDS1FJ100	C 100HM, J, 1/2W	R154	ERJ8GCYJ241	M 2400HM, J, 1/8W
R105	ERJ8GCYJ561	M 5600HM, J, 1/8W	R155	ERJ8GCYJ241	M 2400HM, J, 1/8W
R106	ERDS1FJ100	C 100HM, J, 1/2W	R156	ERJ8GCYJ241	M 2400HM, J, 1/8W
R107	ERJ8GCYJ561	M 5600HM, J, 1/8W	R157	ERJ8GCYJ241	M 2400HM, J, 1/8W
R108	ERJ8GCYJ824	M 820KOHM, J, 1/8W	R158	ERJ8GCYJ241	M 2400HM, J, 1/8W
R109	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R159	ERJ8GCYJ241	M 2400HM, J, 1/8W
R110	ERJ8GCYJ221	M 2200HM, J, 1/8W	R160	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R111	ERJ8GCYJ824	M 820KOHM, J, 1/8W	R161	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R112	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R162	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R113	ERJ8GCYJ221	M 2200HM, J, 1/8W	R163	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R114	ERJ8GCYJ824	M 820KOHM, J, 1/8W	R164	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R115	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R165	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R116	ERJ8GCYJ221	M 2200HM, J, 1/8W	R166	ERJ8GCYJ271	M 2700HM, J, 1/8W
R117	ERDS1FJ100	C 100HM, J, 1/2W	R167	ERJ8GCYJ271	M 2700HM, J, 1/8W
R118	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R168	ERJ8GCYJ271	M 2700HM, J, 1/8W
R119	ERDS1FJ100	C 100HM, J, 1/2W	R172	ERJ8GCYJ271	M 2700HM, J, 1/8W
R120	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R173	ERJ8GCYJ241	M 2400HM, J, 1/8W
R121	ERDS1FJ100	C 100HM, J, 1/2W	R174	ERJ8GCYJ271	M 2700HM, J, 1/8W
R122	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R175	ERJ8GCYJ241	M 2400HM, J, 1/8W
R123	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R176	ERJ8GCYJ271	M 2700HM, J, 1/8W
R124	ERJ8GCYJ183	M 18KOHM, J, 1/8W	R177	ERJ8GCYJ241	M 2400HM, J, 1/8W
R125	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R178	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R126	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R179	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R127	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R180	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R128	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R181	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R129	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R182	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R130	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R183	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R131	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R184	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W
R132	ERJ8GCYJ101	M 1000HM, J, 1/8W	R185	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R133	EVN64AA00B54	H. SHADING 50KOHMB	R186	EVN64AA00B14	C V.REVISION 10KOHMB
R134	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R187	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R135	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R188	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R136	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R189	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R137	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R190	ERJ8GCYJ202	M 2KOHM, J, 1/8W
R138	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R191	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R139	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R192	EVN64AA00B13	H. REVISION 1KOHMB
			R193	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
			R194	ERJ8GCYJ101	M 1000HM, J, 1/8W
			R195	ERJ8GCYJ153	M 15KOHM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R196	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R241	ERDS1FJ221	C 2200HM, J, 1/2W
R197	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R242	ERDS1FJ1RO	C 10HM, J, 1/2W
R198	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R243	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R199	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R244	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R201	ERDS1FJ1RO	C 10HM, J, 1/2W	R245	ERJ8GCYJ121	M 1200HM, J, 1/8W
R202	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R246	ERJ8GCYJ121	M 1200HM, J, 1/8W
R203	ERJ8GCYJ121	M 1200HM, J, 1/8W	R247	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R204	ERDS1FJ221	C 2200HM, J, 1/2W	R248	ERX2SJ8R2H	M 8.20HM, J, 2W
R205	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R249	ERX2SJ8R2H	M 8.20HM, J, 2W
R206	ERJ8GCYJ121	M 1200HM, J, 1/8W	R250	ERX2SJ8R2H	M 8.20HM, J, 2W
R207	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R251	ERX2SJ8R2H	M 8.20HM, J, 2W
R208	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R252	ERX2SJ8R2H	M 8.20HM, J, 2W
R209	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R253	ERX2SJ8R2H	M 8.20HM, J, 2W
R210	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R254	ERJ8GCYJ121	M 1200HM, J, 1/8W
R211	ERDS1FJ221	C 2200HM, J, 1/2W	R255	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R212	ERDS1FJ1RO	C 10HM, J, 1/2W	R256	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R213	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R257	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R214	ERJ8GCYJ121	M 1200HM, J, 1/8W	R301	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R215	ERJ8GCYJ121	M 1200HM, J, 1/8W	R302	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R216	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R303	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R217	ERJ8GCYJ121	M 1200HM, J, 1/8W	R304	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R218	ERDS1FJ1RO	C 10HM, J, 1/2W	R305	ERJ8GCYJ473	M 47KOHM, J, 1/8W
R219	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R306	ERJ8GCYJ273	M 27KOHM, J, 1/8W
R220	ERJ8GCYJ121	M 1200HM, J, 1/8W	R307	ERJ8GCYJ393	M 39KOHM, J, 1/8W
R221	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R308	ERJ8GCYJ331	M 3300HM, J, 1/8W
R222	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R309	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W
R223	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R310	ERJ8GCYJ224	M 220KOHM, J, 1/8W
R224	ERDS1FJ221	C 2200HM, J, 1/2W	R311	ERJ8GCYJ391	M 3900HM, J, 1/8W
R225	ERDS1FJ221	C 2200HM, J, 1/2W	R312	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R226	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R313	ERJ8GCYJ471	M 4700HM, J, 1/8W
R227	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R314	ERJ8GCYJ560	M 560HM, J, 1/8W
R228	ERJ8GCYJ121	M 1200HM, J, 1/8W	R315	ERJ8GCYJ221	M 2200HM, J, 1/8W
R229	ERDS1FJ1RO	C 10HM, J, 1/2W	R316	ERJ8GCYJ101	M 1000HM, J, 1/8W
R230	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R317	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R231	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R318	ERJ8GCYJ821	M 8200HM, J, 1/8W
R232	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R319	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W
R233	ERJ8GCYJ121	M 1200HM, J, 1/8W	R320	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R234	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R321	ERJ8GCYJ750	M 750HM, J, 1/8W
R235	ERDS1FJ1RO	C 10HM, J, 1/2W	R322	ERJ8GCYJ750	M 750HM, J, 1/8W
R236	ERJ8GCYJ121	M 1200HM, J, 1/8W	R323	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R237	ERDS1FJ221	C 2200HM, J, 1/2W	R324	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R238	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R325	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R239	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W			
R240	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R326	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R370	ERJ8GCYJ681	M 6800HM, J, 1/8W
R327	EVND4AA00B52	5000HMB	R371	ERJ8GCYJ681	M 6800HM, J, 1/8W
R328	ERJ8GCYJ331	M 3300HM, J, 1/8W	R372	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R329	ERJ8GCYJ331	M 3300HM, J, 1/8W	R373	ERJ8GCYJ151	M 1500HM, J, 1/8W
R330	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R374	ERJ8GCYJ181	M 1800HM, J, 1/8W
R331	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R375	ERJ8GCYJ821	M 8200HM, J, 1/8W
R332	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R376	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R333	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R377	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R334	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R378	ERJ8GCYJ681	M 6800HM, J, 1/8W
R335	ERJ8GCYJ681	M 6800HM, J, 1/8W	R379	ERJ8GCYJ681	M 6800HM, J, 1/8W
R336	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R380	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R337	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W	R381	ERJ8GCYJ181	M 1800HM, J, 1/8W
R338	ERJ8GCYJ681	M 6800HM, J, 1/8W	R382	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R339	ERJ8GCYJ561	M 5600HM, J, 1/8W	R383	ERJ8GCYJ393	M 39KOHM, J, 1/8W
R340	ERJ8GCYJ121	M 1200HM, J, 1/8W	R384	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R341	ERJ8GCYJ681	M 6800HM, J, 1/8W	R385	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R342	ERJ8GCYJ331	M 3300HM, J, 1/8W	R386	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R343	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R387	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R344	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R388	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R345	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R389	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R346	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R390	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R347	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R391	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R348	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R392	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R349	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R393	ERJ8GCYJ474	M 470KOHM, J, 1/8W
R350	ERJ8GCYJ101	M 1000HM, J, 1/8W	R397	ERJ8GCYJ271	M 2700HM, J, 1/8W
			R398	ERJ8GCY0R00	M 00HM, J, 1/8W
R351	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R399	ERDS1FJ101	C 1000HM, J, 1/2W
R352	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R401	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R353	EVND4AA00B53	SUB CONTRAST 5KOHMB	R402	ERJ8GCYJ471	M 4700HM, J, 1/8W
R354	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R403	ERJ8GCYJ471	M 4700HM, J, 1/8W
R355	ERJ8GCYJ183	M 18KOHM, J, 1/8W	R404	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R356	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R405	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R357	ERDS1FJ100	C 100HM, J, 1/2W	R406	ERJ8GCYJ101	M 1000HM, J, 1/8W
R358	ERJ8GCYJ151	M 1500HM, J, 1/8W	R407	ERJ8GCZJ125	C 1.2MOHM, J, 1/8W
R359	ERJ8GCYJ181	M 1800HM, J, 1/8W	R413	ERJ8GCYJ271	M 2700HM, J, 1/8W
R360	ERJ8GCYJ821	M 8200HM, J, 1/8W	R414	ERJ8GCYJ684	M 680KOHM, J, 1/8W
R361	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R415	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R362	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R416	EXBP84332J	R-NETWORK
R363	ERJ8GCYJ681	M 6800HM, J, 1/8W	R417	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R364	ERJ8GCYJ681	M 6800HM, J, 1/8W	R419	EVND4AA00B54	NTSC SUB V. HOLD 50KOHMB
R365	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R420	ERJ8GCYJ393	M 39KOHM, J, 1/8W
R366	ERJ8GCYJ151	M 1500HM, J, 1/8W	R421	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R367	ERJ8GCYJ821	M 8200HM, J, 1/8W	R423	ERJ8GCYJ473	M 47KOHM, J, 1/8W
R368	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R424	EVND4AA00B24	RGB V. HOLD 20KOHMB
R369	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R425	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R426	EXBT44332M	R-NETWORK	R491	ERJ8GCYJ271	M 2700HM, J, 1/8W
R427	EXPB84332J	R-NETWORK	R492	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R428	EVND4AA00B25	VIDEO V. SIZE 200KOHMB	R493	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R429	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R494	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R432	EVND4AA00B25	NTSC SUB V. SIZE 200KOHMB	R497	ERJ8GCYJ824	M 820KOHM, J, 1/8W
R433	ERJ8GCYJ124	M 120KOHM, J, 1/8W	R498	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R434	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R503	EXPB84332J	R-NETWORK
R437	EVND4AA00B35	RGB V. SIZE .300KOHMB	R506	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R438	ERJ8GCYJ101	M 1000HM, J, 1/8W	R507	ERJ8GCYJ681	M 6800HM, J, 1/8W
R439	ERG1SJ561P	M 5600HM, J, 1W	R512	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R440	ERDS1FJ102	C 1KOHM, J, 1/2W	R513	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R441	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R514	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R442	EVND4AA00B34	V. LIN 30KOHMB	R515	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R443	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R516	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R444	ERJ8GCYJ681	M 6800HM, J, 1/8W	R517	ERJ8GCYJ471	M 4700HM, J, 1/8W
R451	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R518	ERJ8GCYJ471	M 4700HM, J, 1/8W
R452	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R519	EVND4AA00B13	P/S H. HOLD 1KOHMB
R453	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R520	EVND4AA00B13	NTSC V. HOLD 1KOHMB
R454	ERDS1FJ332	C 3.3KOHM, J, 1/2W	R521	ERD25CKG1801	M 1.8KOHM, J, 1/4W
R455	ERG2SJ222H	M 2.2KOHM, J, 2W	R522	ERJ8GCYJ471	M 4700HM, J, 1/8W
R456	ERG2SJ332H	M 3.3KOHM, J, 2W	R523	EVND4AA00B13	RGB V. HOLD 1KOHMB
R457	ERDS1TJ102	C 1KOHM, J, 1/2W	△R530	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R458	ERDS1TJ3R3	C 3.30HM, J, 1/2W	R531	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R459	ERDS1TJ223	C 22KOHM, J, 1/2W	R532	ERJ8GCYJ103	M 10KOHM, J, 1/8W
△R461	ERQ2CJ680	F 680HM, 2W	R533	ERG2ANJ152H	M 1.5KOHM, J, 2W
			△R534	EVND4AA00B33	PROTECTOR ADJ.
R462	ERDS1FJ3R3	C 3.30HM, J, 1/2W			3KOHMB
R463	ERDS1FJ3R3	C 3.30HM, J, 1/2W	△R535	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R464	ERG1SJ102P	M 1KOHM, J, 1W	△R537	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R465	ERG1SJ221P	M 2200HM, J, 1W	△R538	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W
R466	ERD25FJ1R0	C 10HM, J, 1/4W	△R539	ERD25FJ222	C 2.2KOHM, J, 1/4W
R467	ERG2SJ272H	M 2.7KOHM, J, 2W	△R540	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R468	ERD25FJ472	C 4.7KOHM, J, 1/4W	△R541	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R469	ERJ8GCYJ101	M 1000HM, J, 1/8W	△R542	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R470	ERJ8GCYJ271	M 2700HM, J, 1/8W	△R543	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R481	ERJ8GCYJ333	M 33KOHM, J, 1/8W	△R544	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R482	ERJ8GCYJ101	M 1000HM, J, 1/8W	△R545	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R483	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R551	ERJ8GCYJ333	M 33KOHM, J, 1/8W
R484	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R552	ERJ8GCYJ332	C 3.3KOHM, J, 1/8W
R485	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R553	ERJ8GCYJ101	M 1000HM, J, 1/8W
R486	ERD25FJ100	C 100HM, J, 1/4W	R554	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R487	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R557	ERJ8GCYJ104	C 100KOHM, J, 1/8W
R488	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R558	ERJ8GCYJ104	C 100KOHM, J, 1/8W
R489	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R559	ERJ8GCYJ683	M 68KOHM, J, 1/8W
R490	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R560	ERJ8GCYJ271	M 2700HM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R561	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R632	ERJ8GCYJ471	M 4700HM, J, 1/8W
R562	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R633	EVND4AA00B23	DL. ADJ. 2KOHMB
R563	ERD25FJ100	C 100HM, J, 1/4W	R634	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R564	ERJ8GCYJ101	M 1000HM, J, 1/8W	R635	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R567	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R636	ERJ8GCYJ823	M 82KOHM, J, 1/8W
R568	EVND4AA00B24	H. CENTERING 20KOHMB	R637	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R576	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R638	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R577	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R639	ERJ8GCYJ561	M 5600HM, J, 1/8W
R582	ERJ8GCYJ101	M 1000HM, J, 1/8W	R641	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R583	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R642	ERJ8GCYJ331	M 3300HM, J, 1/8W
R584	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R643	ERJ8GCYJ331	M 3300HM, J, 1/8W
R585	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R644	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R586	ERJ8GCYJ122	M 1.2KOHM, J, 1/8W	R645	ERJ8GCYJ331	M 3300HM, J, 1/8W
R588	EXBP84473J	R-NETWORK	R646	EVND4AA00B53	R-Y GAIN 5KOHMB
R589	EXBP84473J	R-NETWORK	R647	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R590	ERDS1TJ331	C 3300HM, J, 1/2W	R648	ERJ8GCYJ221	M 2200HM, J, 1/8W
△R591	ERDS1TJ823	C 82KOHM, J, 1/2W	R649	ERJ8GCYJ333	M 33KOHM, J, 1/8W
R601	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R650	ERJ8GCYJ221	M 2200HM, J, 1/8W
R602	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R651	EVND4AA00B23	SECAM DL. ADJ. 2KOHMB
R603	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R652	ERJ8GCYJ561	M 5600HM, J, 1/8W
R604	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R653	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W
R605	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R654	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R606	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R655	ERJ8GCYJ391	M 3900HM, J, 1/8W
R607	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R656	ERJ8GCYJ391	M 3900HM, J, 1/8W
R608	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R657	ERJ8GCYJ391	M 3900HM, J, 1/8W
R609	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W	R658	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R610	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R659	EVND4AA00B53	B-Y DL. 5KOHMB
R611	ERJ8GCYJ333	M 33KOHM, J, 1/8W	R660	ERJ8GCYJ681	M 6800HM, J, 1/8W
R612	ERJ8GCZJ395	C 3.9MOHM, J, 1/8W	R661	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R613	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R662	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R614	ERJ8GCYJ471	M 4700HM, J, 1/8W	R663	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R616	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R664	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R617	ERJ8GCYJ183	C 18KOHM, J, 1/8W	R665	ERJ8GCYJ391	M 3900HM, J, 1/8W
R618	ERJ8GCYJ104	C 100KOHM, J, 1/8W	R666	ERJ8GCYJ221	M 2200HM, J, 1/8W
R619	EVND4AA00B14	APC 10KOHMB	R667	ERJ8GCYJ224	M 220KOHM, J, 1/8W
R620	ERJ8GCYJ221	M 2200HM, J, 1/8W	R671	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R621	ERJ8GCYJ821	M 8200HM, J, 1/8W	R672	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R622	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R673	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R624	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R674	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R626	ERJ8GCYJ224	C 220KOHM, J, 1/8W	R675	ERJ8GCYJ683	M 68KOHM, J, 1/8W
R627	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R676	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R628	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R677	ERDS1FJ100	C 100HM, J, 1/2W
R629	EVND4AA00B14	SUB COLOR 10KOHMB	R678	ERJ8GCYJ273	C 27KOHM, J, 1/8W
R630	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R679	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R631	ERDS1FJ100	C 100HM, J, 1/2W	R680	ERJ8GCYJ103	M 10KOHM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R681	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R729	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R682	ERJ8GCYJ101	M 1000HM, J, 1/8W	R730	ERD25FJ102	C 1KOHM, J, 1/4W
R683	ERJ8GCYJ393	M 39KOHM, J, 1/8W	R731	ERD25FJ120	C 120HM, J, 1/4W
R684	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R732	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R685	ERJ8GCYJ684	M 680KOHM, J, 1/8W	R733	ERJ8GCYJ154	C 150KOHM, J, 1/8W
R686	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R734	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R687	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R735	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R688	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R736	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R689	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R737	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R690	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R738	ERJ8GCYJ821	M 8200HM, J, 1/8W
R691	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R739	ERJ8GCYJ273	M 27KOHM, J, 1/8W
R692	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R740	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R693	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R741	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R694	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R742	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R695	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R743	ERJ8GCYJ684	M 680KOHM, J, 1/8W
R696	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R744	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R697	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R745	EVND4H00GB24	H/L PIN. 20KOHMB
R698	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R746	ERJ8GCYJ123	M 12KOHM, J, 1/8W
R701	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R753	ERJ8GCYJ333	M 33KOHM, J, 1/8W
R702	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R755	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R704	ERJ8GCYJ333	M 33KOHM, J, 1/8W	R756	ERO25CKF1203	M 120KOHM, F, 1/4W
R705	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R757	ERO25CKF4702	M 47KOHM, F, 1/4W
R707	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R758	ERDS1TJ471	C 4700HM, J, 1/2W
R708	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R759	ERDS1TJ471	C 4700HM, J, 1/2W
R709	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R760	ERO25CKF2002	M 20KOHM, F, 1/4W
R710	ERD25FJ100	C 100HM, J, 1/4W	R761	ERO25CKF2002	M 20KOHM, F, 1/4W
R711	ERJ8GCYJ473	C 47KOHM, J, 1/8W	R762	ERO25CKF6800	M 6800HM, F, 1/4W
R712	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R763	ERO25CKF6800	M 6800HM, F, 1/4W
R713	ERJ8GCYJ331	M 3300HM, J, 1/8W	R764	ERO25CKF2002	M 20KOHM, F, 1/4W
R714	ERO25CKF2002	M 20KOHM, F, 1/4W	R765	ERD25FJ471	C 4700HM, J, 1/4W
R715	ERO25CKF1203	M 120KOHM, F, 1/4W	R766	ERO25CKF3301	M 3.3KOHM, F, 1/4W
R716	ERD25FJ100	C 100HM, J, 1/4W	R767	ERO25CKF1203	M 120KOHM, F, 1/4W
R717	ERO25CKF4702	M 47KOHM, F, 1/4W	R768	ERJ8GCYJ273	M 27KOHM, J, 1/8W
R718	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R769	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R719	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R770	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R720	ERO25CKF2002	M 20KOHM, F, 1/4W	R771	ERD25FJ222	C 2.2KOHM, J, 1/4W
R721	ERD25FJ471	C 4700HM, J, 1/4W	R772	ERDS1FJ222	C 2.2KOHM, J, 1/2W
R722	ERO25CKF3301	M 3.3KOHM, F, 1/4W	R774	ERDS1FJ821	C 8200HM, J, 1/2W
R723	ERO25CKF6800	M 6800HM, F, 1/4W	R775	ERDS1FJ330	C 330HM, J, 1/2W
R724	ERO25CKF6800	M 6800HM, F, 1/4W	R776	ERJ8GCYJ101	M 1000HM, J, 1/8W
R725	ERO25CKF1203	M 120KOHM, F, 1/4W	R777	ERJ8GCYJ334	M 330KOHM, J, 1/8W
R726	ERO25CKF2002	M 20KOHM, F, 1/4W	R778	ERJ8GCZJ155	M 1.5MOHM, J, 1/8W
R727	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R780	ERJ8GCYJ563	M 56KOHM, J, 1/8W
R728	ERD25FJ472	C 4.7KOHM, J, 1/4W	R781	ERJ8GCYJ563	M 56KOHM, J, 1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R782	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R832	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W
R783	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R833	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R784	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R834	ERJ8GCYJ471	M 4700HM, J, 1/8W
R785	ERDS1TJ102	C 1KOHM, J, 1/2W	R835	ERJ8GCYJ563	M 56KOHM, J, 1/8W
R786	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R836	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R787	EVND4AA00B52	H. KEYSTONE WAVE CORRECTION 5000HMB	R837	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R788	EVND4H00GB24	H/L PIN. 20KOHMB	R838	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R789	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R839	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R790	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R840	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R791	EVND4AA00B52	H. KEYSTONE WAVE CORRECTION 5000HMB	R841	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R792	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R842	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R793	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R843	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R794	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R844	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R795	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R845	ERJ8GCYJ154	M 150KOHM, J, 1/8W
R796	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R846	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R797	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R847	ERJ8GCYJ683	M 68KOHM, J, 1/8W
R798	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R848	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R799	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R849	ERJ8GCYJ274	M 270KOHM, J, 1/8W
R800	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R850	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R801	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R851	ERJ8GCYJ683	M 68KOHM, J, 1/8W
R802	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R852	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R803	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R853	ERJ8GCYJ154	M 150KOHM, J, 1/8W
R804	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R854	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R805	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R859	ERDS1FJ1R0	C 10HM, J, 1/2W
R806	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W	R860	ERDS1FJ1R2	C 1.20HM, J, 1/2W
R807	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R862	ERDS1FJ471	C 4700HM, J, 1/2W
R808	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R863	ERJ8GCYJ224	C 220KOHM, J, 1/8W
R809	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R865	ERJ8GCYJ154	C 150KOHM, J, 1/8W
R810	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R866	ERDS1FJ1R2	C 1.20HM, J, 1/2W
R811	ERJ8GCYJ274	M 270KOHM, J, 1/8W	R867	ERDS1FJ1R0	C 10HM, J, 1/2W
R812	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R868	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R813	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R869	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R814	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R870	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R815	ERJ8GCYJ822	M 8.2KOHM, J, 1/8W	R871	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R816	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R872	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R817	ERJ8GCYJ471	M 4700HM, J, 1/8W	R873	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R818	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R874	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R819	ERJ8GCYJ563	M 56KOHM, J, 1/8W	R875	ERJ8GCYJ273	M 27KOHM, J, 1/8W
R820	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R876	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R821	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R877	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R822	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R878	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R823	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R879	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R824	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R880	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R825	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R881	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R826	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R882	EVND4H00RB24	B-H CONVERGENCE 20KOHMB
R827	ERJ8GCYJ104	M 100KOHM, J, 1/8W			
R828	ERJ8GCYJ473	M 47KOHM, J, 1/8W			
R829	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W			
R830	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W			
R831	ERJ8GCYJ104	M 100KOHM, J, 1/8W			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R883	ERJ8GCYJG82	M 6.8KOHM, J, 1/8W	R918	ERJ8GCYJG82	M 6.8KOHM, J, 1/8W
R884	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R919	EVND4H00BB24	B-V CONVERGENCE 20KOHMB
R885	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R920	ERJ8GCYJG82	M 6.8KOHM, J, 1/8W
R886	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R921	EVND4H00BB24	B-V CONVERGENCE 20KOHMB
R887	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R922	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R888	ERJ8GCYJ683	M 68KOHM, J, 1/8W	R923	EVND4H00BB24	B-V CONVERGENCE 20KOHMB
R889	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R924	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R890	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R925	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R891	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R926	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R892	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R927	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R893	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R928	EVND4H00BB24	B-V CONVERGENCE 20KOHMB
R894	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R929	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R895	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R930	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R896	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R931	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R897	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R932	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R898	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R933	ERJ8GCYJ683	M 68KOHM, J, 1/8W
R899	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R934	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R900	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R935	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R901	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R936	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R902	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R937	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R903	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R938	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R904	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R939	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R905	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R940	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R906	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R941	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R907	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R942	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R908	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R943	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R909	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R944	EVND4H00GB24	H/L PIN. L 20KOHMB
R910	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R945	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R911	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R946	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R912	ERJ8GCYJ273	M 27KOHM, J, 1/8W	R947	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R913	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R948	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R914	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R949	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R915	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R950	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R916	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R951	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R917	EVND4H00BB24	B-V CONVERGENCE 20KOHMB	R952	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
			R953	ERJ8GCYJ473	M 47KOHM, J, 1/8W
			R954	ERJ8GCYJ104	M 100KOHM, J, 1/8W
			R955	EVND4AAOOB52	T/B PIN CORRECTION

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R956	ERJ8GCYJ104	M 100KOHM, J, 1/8W	R1035	ERDS1TJ271	C 2700HM, J, 1/2W
R958	EVND4AA00B52	T/B PIN CORRECTION 5000HMB	R1036	ERD25FJ271	C 2700HM, J, 1/4W
R960	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R1037	ERD25FJ271	C 2700HM, J, 1/4W
R961	ERDS1TJ152	C 1.5KOHM, J, 1/2W	R1038	ERD25FJ271	C 2700HM, J, 1/4W
R962	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R1039	ERD25FJ271	C 2700HM, J, 1/4W
R970	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1040	ERD25FJ271	C 2700HM, J, 1/4W
R971	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R1041	ERDS1TJ271	C 2700HM, J, 1/2W
R972	ERJ8GCYJ273	M 27KOHM, J, 1/8W	R1042	ERDS1TJ271	C 2700HM, J, 1/2W
R974	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1043	ERDS1TJ271	C 2700HM, J, 1/2W
R978	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R1044	ERDS1TJ271	C 2700HM, J, 1/2W
R979	ERD25FJ182	C 1.8KOHM, J, 1/4W	R1045	ERDS1TJ271	C 2700HM, J, 1/2W
R980	ERD25FJ100	C 100HM, J, 1/4W	R1046	ERD25FJ271	C 2700HM, J, 1/2W
△R981	ERQ12HJ101P	F 1000HM, J, 1/2W	R1047	ERD25FJ271	C 2700HM, J, 1/4W
R982	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R1048	ERD25FJ271	C 2700HM, J, 1/4W
R983	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R1049	ERD25FJ271	C 2700HM, J, 1/4W
R984	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R1050	ERD25FJ101	C 1000HM, J, 1/4W
R985	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R1060	ERD25FJ223	C 22KOHM, J, 1/4W
R986	EVND4AA00B24	KEY STONE CORRECTION 20KOHMB	R1061	ERD25FJ123	C 12KOHM, J, 1/4W
R987	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R1062	ERDS1TJ681	C 6800HM, J, 1/2W
R988	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1063	ERD25TJ271	C 2700HM, J, 1/4W
R989	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R1064	ERD25TJ271	C 2700HM, J, 1/4W
R990	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1065	ERD25TJ271	C 2700HM, J, 1/4W
R991	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W	R1066	ERD25TJ101	M 1000HM, J, 1/4W
R993	EVND4AA00B24	SIDE PIN. COMPENSATI -ON 20KOHMB	R1101	ERJ8GCYJ101	C 1000HM, J, 1/8W
R994	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R1102	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R995	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W	R1103	EVN64AA00B24	SUBCONTRAST20KOHMB
R996	ERJ8GCYJ104	C 100KOHM, J, 1/8W	R1104	ERJ8GCYJ101	M 1000HM, J, 1/8W
R997	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R1105	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R998	ERJ8GCYJ473	C 47KOHM, J, 1/8W	R1106	ERJ8GCYJ183	M 18KOHM, J, 1/8W
R999	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W	R1107	EVN64AA00B14	SUB BRIGHT 10KOHMB
R1001	ERDS1FJ331	C 3300HM, J, 1/2W	R1108	ERJ8GCYJ154	C 150KOHM, J, 1/8W
R1002	ERD25FJ560	C 560HM, J, 1/4W	R1109	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R1003	ERD25FJ102	C 1KOHM, J, 1/4W	R1110	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R1004	ERD25FJ103	C 10KOHM, J, 1/4W	R1111	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R1005	ERD25FJ223	C 22KOHM, J, 1/4W	R1112	ERDS1FJ1R0	C 10HM, J, 1/2W
R1006	ERD25FJ393	C 39KOHM, J, 1/4W	R1113	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R1008	ERD25FJ123	C 12KOHM, J, 1/4W	R1114	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R1009	ERDS1TJ681	C 6800HM, J, 1/2W	R1115	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R1010	ERDS1FJ100	C 100HM, J, 1/2W	R1116	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R1011	ERDS1FJ220	C 220HM, J, 1/2W	R1117	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1020	ERD25FJ224	C 220KOHM, J, 1/4W	R1118	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R1021	ERD25FJ102	C 1KOHM, J, 1/4W	R1119	ERJ8GCYJ561	M 5600HM, J, 1/8W
R1025	ERD25FJ333	C 33KOHM, J, 1/4W	R1120	EVN64AA00B33	CH. 3KOHMB
R1028	ERD25FJ223	C 22KOHM, J, 1/4W	R1121	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1029	ERD25FJ271	C 2700HM, J, 1/4W	R1122	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R1030	ERD25FJ271	C 2700HM, J, 1/4W	R1123	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W
R1031	ERD25FJ271	C 2700HM, J, 1/4W	R1124	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W
R1032	ERD25FJ271	C 2700HM, J, 1/4W	R1125	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W
R1033	ERD25FJ271	C 2700HM, J, 1/4W			
R1034	ERDS1TJ271	C 2700HM, J, 1/2W			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1126	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R1178	ERDS1FJ820	C 820HMM, J, 1/2W
R1127	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1179	ERJ8GCYJ332	M 3.3KOHM, J, 1/8W
R1128	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R1180	ERJ8GCYJ104	M 100KOHM, J, 1/8W
R1129	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1181	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R1130	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	R1182	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R1131	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R1183	ERJ8GCYJ393	M 39KOHM, J, 1/8W
R1132	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W	R1184	ERJ8GCYJ202	M 2KOHM, J, 1/8W
R1133	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R1185	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1134	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W	R1186	ERJ8GCYJ272	M 2.7KOHM, J, 1/8W
R1135	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1187	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W
R1136	ERJ8GCYJ273	M 27KOHM, J, 1/8W	R1188	ERJ8GCYJ391	M 3900HMM, J, 1/8W
R1137	ERDS1FJ221	C 2200HMM, J, 1/2W	R1189	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1138	ERJ8GCYJ182	M 1.8KOHM, J, 1/8W	R1190	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R1139	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1191	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1140	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1192	ERJ8GCYJ562	M 5.6KOHM, J, 1/8W
R1141	EVN64AA00B53	CH.BRIGHT 5KOHMB	R1193	ERJ8GCYJ684	M 680KOHM, J, 1/8W
R1142	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R1194	ERJ8GCYJ684	M 680KOHM, J, 1/8W
R1143	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R1195	ERJ8GCYJ684	M 680KOHM, J, 1/8W
R1144	ERDS1FJ100	C 100HMM, J, 1/2W	R1196	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R1145	ERJ8GCYJ331	M 3300HMM, J, 1/8W	R1197	ERJ8GCYJ474	M 470KOHM, J, 1/8W
R1146	ERDS1FJ100	C 100HMM, J, 1/2W	R1198	ERJ8GCYJ471	M 4700HMM, J, 1/8W
R1147	ERDS1FJ100	C 100HMM, J, 1/2W	R1199	ERJ8GCYJ564	C 560KOHM, J, 1/8W
R1148	ERJ8GCYJ331	M 3300HMM, J, 1/8W	R1200	ERD25FJ100	C 100HMM, J, 1/4W
R1149	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R1201	ERD25FJ103	C 10KOHM, J, 1/4W
R1151	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R1202	ERD25TJ393	C 39KOHM, J, 1/4W
R1153	ERJ8GCYJ123	M 12KOHM, J, 1/8W	R1203	ERD25FJ100	C 100HMM, J, 1/4W
R1156	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1204	ERD25TJ182	C 1.8KOHM, J, 1/4W
R1157	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R1205	ERD25TJ330	C 330HMM, J, 1/4W
R1159	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R1206	ERD25TJ471	C 4700HMM, J, 1/4W
R1160	ERJ8GCYJ392	M 3.9KOHM, J, 1/8W	R1207	ERD25TJ102	C 1KOHM, J, 1/4W
R1161	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1208	ERD25TJ471	C 4700HMM, J, 1/4W
R1162	ERJ8GCYJ473	M 47KOHM, J, 1/8W	R1209	ERD25TJ102	C 1KOHM, J, 1/4W
R1163	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1210	ERD25TJ181	C 1800HMM, J, 1/4W
R1164	ERJ8GCYJ102	M 1KOHM, J, 1/8W	R1211	ERD25TJ104	C 100KOHM, J, 1/4W
R1166	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1212	ERD25TJ103	C 10KOHM, J, 1/4W
R1167	ERJ8GCYJ104	M 100KOHM, J, 1/8W			
R1168	ERJ8GCYJ101	M 1000HMM, J, 1/8W	R1213	ERD25TJ474	C 470KOHM, J, 1/4W
R1169	ERJ8GCYJ153	M 15KOHM, J, 1/8W	R1214	ERD25TJ223	C 22KOHM, J, 1/4W
R1170	ERJ8GCYJ101	M 1000HMM, J, 1/8W	R1215	ERD25TJ102	C 1KOHM, J, 1/4W
R1171	ERJ8GCYJ223	M 22KOHM, J, 1/8W	R1216	ERD25TJ392	C 3.9KOHM, J, 1/4W
R1172	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1217	ERD25FJ223	C 22KOHM, J, 1/4W
R1173	ERJ8GCYJ622	M 6.2KOHM, J, 1/8W			
R1174	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1218	ERD25FJ223	C 22KOHM, J, 1/4W
R1175	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R1219	ERD25TJ222	C 2.2KOHM, J, 1/4W
R1176	ERJ8GCYJ183	M 18KOHM, J, 1/8W	R1220	ERD25FJ182	C 1.8KOHM, J, 1/4W
R1177	ERJ8GCYJ331	M 3300HMM, J, 1/8W	R1221	ERD25TJ330	C 330HMM, J, 1/4W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1222	ERD25TJ102	C 1KOHM, J, 1/4W	R1266	ERD25TJ471	C 4700HM, J, 1/4W
R1223	ERD25TJ223	C 22KOHM, J, 1/4W	R1267	ERD25TJ101	C 1000HM, J, 1/4W
R1224	ERD25TJ562	C 5.6KOHM, J, 1/4W	R1268	ERD25TJ101	C 1000HM, J, 1/4W
R1225	ERD25TJ471	C 4700HM, J, 1/4W	R1269	ERD25TJ330	C 330HM, J, 1/4W
R1226	ERD25TJ102	C 1KOHM, J, 1/4W	R1290	ERJ8GCYJ153	M 15KOHM, J, 1/8W
R1227	ERD25TJ123	C 12KOHM, J, 1/4W	R1291	ERJ8GCYJ103	M 10KOHM, J, 1/8W
R1228	ERD25TJ102	C 1KOHM, J, 1/4W	R1292	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R1229	ERD25TJ104	C 100KOHM, J, 1/4W	R1293	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1230	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1294	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R1231	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1296	ERJ8GCYJ223	M 22KOHM, J, 1/8W
			R1297	ERJ8GCYJ563	M 56KOHM, J, 1/8W
R1232	ERD25TJ102	C 1KOHM, J, 1/4W	R1299	ERJ8GCYJ471	M 4700HM, J, 1/8W
R1233	ERD25TJ561	C 5600HM, J, 1/4W	△R1401	ERF2AK1R2	W 1.20HM, K, 2W
R1234	ERD25TJ472	C 4.7KOHM, J, 1/4W	△R1402	ERDS1FJ392	C 3.9KOHM, J, 1/2W
R1235	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1403	ERDS1FJ101	C 1000HM, J, 1/2W
R1236	ERD25TJ102	C 1KOHM, J, 1/4W	R1404	ERD25FJ101	C 1000HM, J, 1/4W
R1237	ERD25TJ104	C 100KOHM, J, 1/4W	R1406	ERD25FJ681	C 6800HM, J, 1/4W
R1238	ERD25TJ473	C 47KOHM, J, 1/4W	R1407	ERD25FJ271	C 2700HM, J, 1/4W
R1239	ERD25TJ222	C 2.2KOHM, J, 1/4W	△R1409	ERDS1TJ102	C 1KOHM, J, 1/2W
R1240	ERD25TJ122	C 1.2KOHM, J, 1/4W	△R1410	ERG2ANJ182H	M 1.8KOHM, J, 2W
R1241	ERD25TJ102	C 1KOHM, J, 1/4W	△R1411	ERD25TJ102	C 1KOHM, J, 1/4W
R1242	ERD25FJ333	C 33KOHM, J, 1/4W	△R1412	ERG1ANJ682H	M 6.8KOHM, J, 1W
R1243	ERD25TJ334	C 330KOHM, J, 1/4W	R1413	ERG3SJ332H	M 3.3KOHM, J, 3W
R1244	ERD25FJ222	C 2.2KOHM, J, 1/4W	R1415	ERX12SJR47P	M 0.470HM, J, 1/2W
R1245	ERD25TJ683	C 68KOHM, J, 1/4W	R1416	ERD25TJ332	C 3.3KOHM, J, 1/4W
R1246	ERD25TJ473	C 47KOHM, J, 1/4W	△R1417	ERD25FJ471	C 4700HM, J, 1/4W
R1247	ERD25TJ102	C 1KOHM, J, 1/4W	△R1418	ERO25CKF8202	M 82KOHM, F, 1/4W
R1248	ERD25TJ272	C 2.7KOHM, J, 1/4W	△R1419	EVN38CAOOB53	HV ADJ. 5KOHMB
R1249	ERD25TJ393	C 39KOHM, J, 1/4W	△R1420	ERO25CKF8061	M8.06KOHM, F, 1/4W
R1250	ERD25TJ473	C 47KOHM, J, 1/4W	R1421	ERD25FJ471	C 4700HM, J, 1/4W
R1251	ERD25TJ273	C 27KOHM, J, 1/4W	R1422	ERDS1TJ393	C 39KOHM, J, 1/2W
R1252	ERD25FJ333	C 33KOHM, J, 1/4W	R1426	ERO25CKF7872	M78.7KOHM, F, 1/4W
R1253	ERD25TJ333	C 33KOHM, J, 1/4W	R1427	ERD25TJ223	C 22KOHM, J, 1/4W
R1254	ERD25FJ101	C 1000HM, J, 1/4W	R1428	ERD25TJ272	C 2.7KOHM, J, 1/4W
R1255	ERD25TJ102	C 1KOHM, J, 1/4W	R1429	ERO25CKF1001	M 1KOHM, F, 1/4W
R1256	ERD25TJ101	C 1000HM, J, 1/4W	R1430	ERDS1FJ221	C 2200HM, J, 1/2W
R1257	ERD25TJ102	C 1KOHM, J, 1/4W	R1431	ERD25TJ272	C 2.7KOHM, J, 1/4W
R1258	ERD25TJ473	C 47KOHM, J, 1/4W	R1432	ERG1ANJ823H	M 82KOHM, J, 1W
R1259	ERD25TJ472	C 4.7KOHM, J, 1/4W	R1433	ERO5OOCKG8203	M 820KOHM, J, 1/2W
R1260	ERD25FJ473	C 47KOHM, J, 1/4W	R1435	ERD25TJ182	C 1.8KOHM, J, 1/4W
R1261	ERD25TJ472	C 4.7KOHM, J, 1/4W	R1436	ERD25TJ101	C 1000HM, J, 1/4W
R1262	ERD25TJ103	C 10KOHM, J, 1/4W	R1501	ERO25CKG8202	M 82KOHM, G, 1/4W
R1263	ERD25FJ103	C 10KOHM, J, 1/4W	R1502	ERO25CKG1202	M 1.2KOHM, G, 1/4W
R1264	ERD25TJ681	C 6800HM, J, 1/4W	R1503	ERG1ANJ682H	M 6.8KOHM, J, 1W
R1265	ERD25TJ471	C 4700HM, J, 1/4W	R1504	ERG1ANJ682H	M 6.8KOHM, J, 1W
			R1505	ERD25TJ563	C 56KOHM, J, 1/4W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1506	ERD25TJ681	C 6800HM, J, 1/4W	R1603	ERD25TJ104	C 100KOHM, J, 1/4W
R1507	ERD25TJ681	C 6800HM, J, 1/4W	R1604	ERD25TJ472	C 4.7KOHM, J, 1/4W
R1508	ERD25TJ153	C 15KOHM, J, 1/4W	R1605	ERD25TJ472	C 4.7KOHM, J, 1/4W
R1509	ERD25TJ181	C 1800HM, J, 1/4W	R1606	EVN64AA00B24	CONTROL 20KOHMB
R1510	ERDS1FJ681	C 6800HM, J, 1/2W	R1607	ERD25TJ103	C 10KOHM, J, 1/4W
R1513	ERD25TJ102	C 1KOHM, J, 1/4W	R1608	ERD25TJ121	C 1200HM, J, 1/4W
R1514	ERO25CKG8202	M 82KOHM, G, 1/4W	R1609	ERD25TJ102	C 1KOHM, J, 1/4W
R1515	ERO25CKG1202	M 1.2KOHM, G, 1/4W	R1610	ERD25TJ471	C 4700HM, J, 1/4W
R1516	ERG1ANJ682H	M 6.8KOHM, J, 1W	R1611	ERD25TJ101	C 1000HM, J, 1/4W
R1517	ERG1ANJ682H	M 6.8KOHM, J, 1W	R1612	ERD25TJ105	C 1MOHM, J, 1/4W
R1518	ERD25FJ563	C 56KOHM, J, 1/4W	R1613	ERD25TJ105	C 1MOHM, J, 1/4W
R1519	ERD25TJ681	C 6800HM, J, 1/4W	R1614	ERD25TJ103	C 10KOHM, J, 1/4W
R1520	ERD25TJ681	C 6800HM, J, 1/4W	R1615	ERG2ANJ823H	M 82KOHM, J, 2W
R1522	ERD25TJ153	C 15KOHM, J, 1/4W	R1616	ERG2ANJ823H	M 82KOHM, J, 2W
R1523	ERD25TJ181	C 1800HM, J, 1/4W	R1701	EVN64AA00B12	R. DRIVE 1000HMB
R1524	ERDS1FJ681	C 6800HM, J, 1/2W	R1702	ERD25TJ560	C 560HM, J, 1/4W
R1525	ERD25FJ102	C 1KOHM, J, 1/4W	R1703	ERD25TJ390	C 390HM, J, 1/4W
R1526	ERDS1FJ103	C 10KOHM, J, 1/2W	R1704	ERD25TJ472	C 4.7KOHM, J, 1/4W
R1528	ERD25TJ223	C 22KOHM, J, 1/4W	R1706	ERG5SJ752H	M 7.5KOHM, J, 5W
R1529	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1707	ERDS1TJ153	C 15KOHM, J, 1/2W
R1530	ERD25TJ103	C 10KOHM, J, 1/4W	R1710	ERG5SJ752H	M 7.5KOHM, J, 5W
R1531	ERD25FJ223	C 22KOHM, J, 1/4W	R1712	ERDS1TJ151	C 1500HM, J, 1/2W
R1532	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1713	ERD25FJ221	C 2200HM, J, 1/4W
R1533	ERD25TJ103	C 10KOHM, J, 1/4W	R1714	ERX1ANJ1R8H	M 1.8OHM, J, 1W
R1534	ERD25TJ272	C 2.7KOHM, J, 1/4W	R1715	ERDS1TJ104	C 100KOHM, J, 1/2W
R1535	ERD25TJ392	C 3.9KOHM, J, 1/4W	R1716	ERD25TJ334	C 330KOHM, J, 1/2W
R1536	EVN38CA00B24	RGB H. SIZE 20KOHMB	R1801	EVN64AA00B12	G. DRIVE 1000HMB
R1538	ERD25FJ473	C 47KOHM, J, 1/4W	R1802	ERD25TJ270	C 270HM, J, 1/4W
R1539	ERD25FJ272	C 2.7KOHM, J, 1/4W	R1803	ERD25TJ390	C 390HM, J, 1/4W
R1540	ERD25TJ392	C 3.9KOHM, J, 1/4W	R1804	ERD25TJ472	C 4.7KOHM, J, 1/4W
R1541	EVN38CA00B24	VIDEO H. SIZE 20KOHMB	R1806	ERG5SJ752H	M 7.5KOHM, 5W
R1543	ERDS1FJ103	C 10KOHM, J, 1/2W	R1807	ERDS1TJ153	C 15KOHM, J, 1/2W
R1547	ERG2ANJ220H	M 220HM, J, 2W	R1810	ERG5SJ752H	M 7.5KOHM, 5W
R1551	ERD25FJ681	C 6800HM, J, 1/4W	R1812	ERDS1TJ151	C 1500HM, J, 1/2W
R1552	ERDS1FJ271	C 2700HM, J, 1/2W	R1813	ERD25FJ221	C 2200HM, J, 1/4W
R1553	ERG3SJ332H	M 3.3KOHM, J, 3W	R1814	ERX1ANJ1R8H	M 1.8OHM, J, 1W
ΔR1554	ERG2ANJ182H	M 1.8KOHM, J, 2W	R1815	ERDS1TJ104	C 100KOHM, J, 1/2W
R1556	ERX12SJR47P	M 0.47OHM, J, 1/2W	R1816	ERD25TJ334	C 330KOHM, J, 1/4W
R1557	ERG2ANJ391H	M 3900HM, J, 2W	R1901	EVN64AA00B12	B. DRIVE 1000HMB
R1558	ERD25TJ473	C 47KOHM, J, 1/4W	R1902	ERD25TJ270	C 270HM, J, 1/4W
R1559	ERD25FJ562	C 5.6KOHM, J, 1/4W	R1903	ERD25TJ390	C 390HM, J, 1/4W
R1560	ERF2AK1R2	W 1.20HM, K, 2W	R1904	ERD25TJ472	C 4.7KOHM, J, 1/4W
R1601	ERD25TJ153	C 15KOHM, J, 1/4W	R1906	ERG5SJ752H	M 7.5KOHM, 5W
R1602	ERD25TJ473	C 47KOHM, J, 1/4W	R1907	ERDS1TJ153	C 15KOHM, J, 1/2W
			R1910	ERG5SJ752H	M 7.5KOHM, 5W
			R1912	ERDS1TJ151	C 1500HM, J, 1/2W
			R1913	ERD25FJ221	C 2200HM, J, 1/4W
			R1914	ERX1ANJ1R8H	M 1.8OHM, J, 1W
			R1915	ERDS1TJ104	C 100KOHM, J, 1/2W
			R1916	ERDS25TJ334	C 330KOHM, J, 1/4W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R3001	ERO25CKF1502	M 15KOHM, F, 1/4W	R7030	ERJ8GCYJ154	C 150KOHM, J, 1/8W
R3002	EVJFLAEA4B15	COLOR 100KOHMB	R7031	ERJ8GCYJ393	C 39KOHM, J, 1/8W
R3003	ERD25FJ222	C 2.2KOHM, J, 1/4W	R7032	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R3004	ERO25CKF1102	M 11KOHM, F, 1/4W	R7033	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R3005	ERD25FJ392	C 3.9KOHM, J, 1/4W	R7034	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W
R3006	EVJFLAEA4B14	TINT 10KOHMB	R7035	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R3007	ERD25FJ392	C 3.9KOHM, J, 1/4W	R7036	EVND4AA00B13	T/B PIN CORRECTION 1KOHMB
R3008	ERD25FJ103	C 10KOHM, J, 1/4W	R7037	ERJ8GCYJ104	C 100KOHM, J, 1/8W
R3009	EVJFMAEA4B53	BRIGHTNESS 5KOHMB	R7038	ERJ8GCYJ102	M 1KOHM, J, 1/8W
R3010	ERD25FJ822	C 8.2KOHM, J, 1/4W	R7040	ERJ8GCYJ101	M 1000HM, J, 1/8W
R3011	EVJFLAEA4B14	CONTRAST 10KOHMB	R8001	EVJFLAEA4B14	R-V 10KOHMB
R3012	EVJFLAEA4B53	SHARPNESS 5KOHMB	R8002	EVJFLAEA4B14	R-H 10KOHMB
R3013	ERD25FJ473	C 47KOHM, J, 1/4W	R8003	EVJFLAEA4B14	B-V 10KOHMB
R3014	ERD25FJ473	C 47KOHM, J, 1/4W	R8004	EVJFLAEA4B14	B-H 10KOHMB
R3015	ERD25FJ104	C 100KOHM, J, 1/4W	R8007	ERDS1FJ151	C 1500HM, J, 1/2W
R3016	ERD25FJ104	C 100KOHM, J, 1/4W	R8008	ERD25FJ182	C 1.8KOHM, J, 1/4W
R3017	ERD25FJ273	C 27KOHM, J, 1/4W	R8009	ERD25FJ332	C 3.3KOHM, J, 1/4W
R3018	EVJFLAEA4B24	V. HOLD 20KOHMB	R8010	ERD25FJ392	C 3.9KOHM, J, 1/4W
R3019	ERD25FJ222	C 2.2KOHM, J, 1/4W	R8011	ERD25FJ392	C 3.9KOHM, J, 1/4W
R3020	ERD25FJ183	C 18KOHM, J, 1/4W	R8012	ERD25FJ392	C 3.9KOHM, J, 1/4W
R3021	ERD25FJ472	C 4.7KOHM, J, 1/4W	R8013	ERD25FJ562	C 5.6KOHM, J, 1/4W
R7005	EVND4H00GB24	G STATIC CONVERGENCE 20KOHMB	R8014	ERD25FJ183	C 18KOHM, J, 1/4W
R7006	EVND4H00GB24	G STATIC CONVERGENCE 20KOHMB	R8015	ERD25FJ183	C 18KOHM, J, 1/4W
R7008	ERDS1FJ151	C 1500HM, J, 1/2W	R8016	ERD25FJ183	C 18KOHM, J, 1/4W
R7009	ERDS1FJ151	C 1500HM, J, 1/2W	R8017	ERD25FJ183	C 18KOHM, J, 1/4W
R7010	ERDS1FJ151	C 1500HM, J, 1/2W	▲R9001	ERF20HMK3R3	W 3.30HM, 20W
R7011	EVND4H00GB24	H/L PIN. 20KOHMB	▲R9005	ERG2ANJ104H	M 100KOHM, J, 2W
R7012	EVND4H00RB24	B-H CONVERGENCE 20KOHMB	R9006	ERD25FJ222	C 2.2KOHM, J, 1/4W
R7013	EVND4H00BB24	CONVERGENCE 20KOHMB	▲R9007	ERG2SJ102H	M 1KOHM, J, 2W
R7014	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R9008	ERG3SJ822H	M 8.2KOHM, J, 3W
R7015	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R9009	ERD25FJ392	C 3.9KOHM, J, 1/4W
R7016	ERJ8GCYJ101	M 1000HM, J, 1/8W	R9010	ERD25FJ472	C 4.7KOHM, J, 1/4W
R7017	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R9011	ERD25FJ101	C 1000HM, J, 1/4W
R7018	ERJ8GCYJ222	M 2.2KOHM, J, 1/8W	R9012	ERD50FJ104	C 100KOHM, J, 1/2W
R7019	ERJ8GCYJ472	M 4.7KOHM, J, 1/8W	R9013	ERD25FJ101	C 1000HM, J, 1/4W
R7020	ERJ8GCYJ394	C 390KOHM, J, 1/8W	R9014	ERD50TJ104	C 100KOHM, J, 1/4W
R7021	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R9015	ERD25FJ221	C 220OHM, J, 1/4W
R7022	ERJ8GCYJ103	M 10KOHM, J, 1/8W	R9016	ERD25FJ221	C 220OHM, J, 1/4W
R7023	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	R9101	ERD25FJ823	C 82KOHM, J, 1/4W
R7024	EVND4H00BB24	B-H CONVERGENCE 20KOHMB	R9102	ERG1SJ331P	M 330OHM, J, 1W
R7025	ERDS1FJ101	C 1000HM, J, 1/2W	R9103	ERD25FJ100	C 100HM, J, 1/4W
R7027	ERJ8GCYJ101	M 1000HM, J, 1/8W	R9104	ERD25TJ681	C 680OHM, J, 1/4W
R7028	ERJ8GCYJ101	M 1000HM, J, 1/8W	R9203	ERD25FJ121	C 120OHM, J, 1/4W
R7029	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W	R9204	ERF2AKR68	W 0.68OHM, K, 2W
			R9205	ERG2SJ333H	M 33KOHM, J, 2W
			R9206	ERDS1FJ120	C 120HM, J, 1/2W
			R9207	ERG2SJ333H	M 33KOHM, J, 2W

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description	
△R9208	ERD75TAJ825	C	8.2MOHM, K, 1/2W	C27	ECEA1CU330	E	33UF, 16V
R9209	ERD25FJ393	C	39KOHM, J, 1/4W	C28	ECEA1CU330	E	33UF, 16V
R9210	ERD25TJ104	C	100KOHM, J, 1/4W	C29	ECEA1CU330	E	33UF, 16V
△R9212	ERQ12HKR27	F	0.270HM, K, 1/2W	C30	ECEA1CU330	E	33UF, 16V
△R9213	ERQ12HKR56P	F	0.560HM, K, 1/2W	C31	ECEA1CU101	E	100UF, 16V
△R9214	ERQ12HKR22	F	0.220HM, K, 1/2W	C32	ECEA1CU101	E	100UF, 16V
△R9215	ERQ12HKR22	F	0.220HM, K, 1/2W	C33	ECQM1H154KV	P	0.15UF, K, 50V
△R9216	ERQ12HKR27	F	0.270HM, K, 1/2W	C34	ECQM1H154KV	P	0.15UF, K, 50V
R9218	ERDS1TJ473	C	47KOHM, J, 1/2W	C35	ECQM1H154KV	P	0.15UF, K, 50V
R9303	ERD25FJ101	C	2200HM, J, 1/4W	C37	ECUX1H120JCM	C	12PF, J, 50V
R9304	ERD2AKR68	W	0.680HM, K, 2W	C38	ECUX1H120JCM	C	12PF, J, 50V
R9305	ERG2SJ333H	M	33KOHM, J, 2W	C39	ECUX1H103KBM	C	0.01UF, K, 50V
△R9307	ERD25FJ121	C	1200HM, J, 1/4W	C40	ECUX1H103KBM	C	0.01UF, K, 50V
R9308	ERD25FJ393	C	39KOHM, J, 1/4W	C41	ECUX1H103KBM	C	0.01UF, K, 50V
R9309	ERD25TJ104	C	100KOHM, J, 1/4W	C42	ECEA1CU220	E	22UF, 16V
R9310	ERG2SJ333H	M	33KOHM, J, 2W	C43	ECEA1CU470	E	47UF, 16V
△R9311	ERD25FJ100	C	100HM, J, 1/4W	C44	ECUX1H270JCM	C	27PF, J, 50V
R9313	ERDS1TJ473	C	47KOHM, J, 1/2W	C45	ECUX1H270JCM	C	27PF, J, 50V
R9401	ERDS1FJ121	C	1200HM, J, 1/2W	C46	ECUX1H270JCM	C	27PF, J, 50V
R9402	ERG3ANJ220H	M	220HM, J, 3W	C47	ECEA1CN220S	E	22UF, 16V
R9403	ERDS1FJ820	C	820HM, J, 1/2W	C48	ECEA1CN220S	E	22UF, 16V
R9404	ERG3SJ220H	M	220HM, J, 3W	C49	ECEA1CN220S	E	22UF, 16V
R9405	ERD25FJ221	C	2200HM, J, 1/4W	C51	ECUX1H103KBM	C	0.01UF, K, 50V
R9406	ERG3SJ100	M	100HM, J, 3W	C53	ECUX1H103KBM	C	0.01UF, K, 50V
R9407	ERD25FJ221	C	2200HM, J, 1/4W	C55	ECUX1H103KBM	C	0.01UF, K, 50V
R9408	ERDS1FJ390	C	390HM, J, 1/2W	C56	ECEA1CN330S	E	33UF, 16V
△R9501	ERC12ZGK105	S	1MOHM, J, 1/2W	C57	ECEA1CN330S	E	33UF, 16V
CAPACITORS							
C9	ECEA1CU470	E	47UF, 16V	C58	ECEA1CN330S	E	33UF, 16V
C10	ECEA1CN330S	E	33UF, 16V	C59	ECEA1EN100S	E	10UF, 25V
C11	ECEA1CN330S	E	33UF, 16V	C60	ECQM1H104KV	P	0.1UF, K, 50V
C12	ECEA1CN330S	E	33UF, 16V	C61	ECEA1HNO10S	E	1UF, 50V
C16	ECEA1CU330	E	33UF, 16V	C62	ECEA1HNO10S	E	1UF, 50V
C17	ECEA1CU330	E	33UF, 16V	C63	ECEA1CN100S	E	10UF, 16V
C18	ECEA1CU330	E	33UF, 16V	C64	ECEA1HN3R3S	E	3.3UF, 50V
C19	ECUX1H120JCM	C	12PF, J, 50V	C65	ECEA1CN330S	E	33UF, 16V
C20	ECUX1H120JCM	C	12PF, J, 50V	C66	ECEA1VU4R7	E	4.7UF, 35V
C21	ECUX1H120JCM	C	12PF, J, 50V	C67	ECUX1H390JCM	C	39PF, J, 50V
C22	ECEA1CU330	E	33UF, 16V	C68	ECUX1H471JCM	C	470PF, J, 50V
C23	ECEA1CU330	E	33UF, 16V	C69	ECEA1CU470	E	47UF, 16V
C24	ECEA1CU330	E	33UF, 16V	C70	ECEA1CU330	E	33UF, 16V
C25	ECEA1CU330	E	33UF, 16V	C71	ECEA1CU100	E	10UF, 16V
C26	ECEA1CU470	E	47UF, 16V	C72	ECEA1HU3R3	E	3.3UF, 50V
				C73	ECEA1HU3R3	E	3.3UF, 50V

Ref. No.	Part No.	Description			Ref. No.	Part No.	Description				
C74	ECEA1HU3R3	E	3.3UF,	50V	C305	ECEA1EU221	E	220PF,	25V		
C75	ECQM1H333JV	P	0.033UF,	J,	50V	C306	ECEA1CU1O1	E	100UF,	16V	
C76	ECUX1H471JCM	C	470PF,	J,	50V	C307	ECEA1CU1O1	E	100UF,	16V	
C77	ECEA1HU010	E	1UF,		50V	C308	ECEA1HU100	E	10UF,	50V	
C78	ECEA1HU010	E	1UF,		50V	C309	ECEA1HU100	E	10UF,	50V	
C80	ECUX1H223KBM	C	0.023UF,	K,	50V	C311	ECUX1H103KBM	C	0.01UF,	K,	50V
C81	ECUX1H221KBM	C	220PF,	K,	50V	C312	ECEA1CU1O1	E	100UF,		16V
C82	ECEA1AU1O1	E	100UF,		10V	C313	ECUX1H103KBM	C	0.01UF,	K,	50V
C83	ECUX1H680JCM	C	68PF,	J,	50V	C315	ECEA1CN1OOS	E	10UF,		16V
C84	ECUX1H680JCM	C	68PF;	J,	50V	C316	ECEA1HU010	E	1UF,		50V
C85	ECUX1H150JCM	C	15PF,	J,	50V	C317	ECEA1CN1OOS	E	10UF,		16V
C86	ECUX1H221KBM	C	220PF,	K,	50V	C318	ECEA1HU100	E	10UF,		50V
C87	ECEA1CN330S	E	33UF,		16V	C319	ECEA1HU100	E	10UF,		50V
C88	ECUX1H103KBM	C	0.01UF,	K,	50V	C320	ECUX1H560JCM	C	56PF,	J,	50V
C89	ECEA1AU1O1	E	100UF,		10V	C321	ECEA1HU3R3	E	3.3UF,		50V
C90	ECUX1H222KBM	C	2200PF,	K,	50V	C322	ECUX1H103KBM	C	0.01UF,	K,	50V
C91	ECQM1H334JV	P	0.33UF,	J,	50V	C324	ECEA1CU330	E	33UF,		16V
C92	ECUX1H220JCM	C	22PF,	J,	50V	C326	ECUX1H103KBM	C	0.01UF,	K,	50V
C93	ECUX1H472KBM	C	4700PF,	K,	50V	C328	ECEA1CU330	E	33UF,		16V
C94	ECUX1H222KBM	C	2200PF,	K,	50V	C330	ECUX1H103KBM	C	0.01UF,	K,	50V
C95	ECUX1H681JCM	C	680PF,	J,	50V	C332	ECEA1CU330	E	33UF,		16V
C96	ECEA1HU2R2	E	2.2UF,		50V	C334	ECUX1H103KBM	C	0.01UF,	K,	50V
C97	ECQM1H683KV	P	0.068UF,	K,	50V	C335	ECUX1H220JCM	E	22PF,		50V
C98	ECQM1H473KV	P	0.047UF,	K,	50V	C336	ECUX1H271JCM	C	270PF,	J,	50V
C99	ECUX1H680JCM	C	68PF,	J,	50V	C337	ECUX1H820JCM	C	82PF,	J,	50V
C201	ECUX1H102KBM	C	1000PF,	K,	50V	C341	ECEA1CN220S	E	22UF,		16V
C202	ECEA1EU470	E	47UF,		25V	C342	ECUX1H103KBM	C	0.01UF,	K,	50V
C203	ECEA1EU1O1	E	100UF,		25V	C350	ECEA1CU331	E	330UF,		16V
C204	ECEA1EU470	E	47UF,		25V	C403	ECEA1CU100	E	10UF,		16V
C205	ECUX1H102KBM	C	1000PF,	K,	50V	C404	ECEA50ZR68	E	0.68UF,		50V
C206	ECUX1H102KBM	C	1000PF,	K,	50V	C405	ECKF1H681KB	C	680PF,	K,	50V
C207	ECEA1EU470	E	47UF,		25V	C406	ECQM1H393KV	P	0.039UF,	K,	50V
C209	ECEA1EU1O1	E	100UF,		25V	C407	ECSZ16EF2R2V	T	2.2UF,		16V
C210	ECUX1H102KBM	C	1000PF,	K,	50V	C408	ECQM1H222KV	P	2200PF,	K,	50V
C211	ECEA1EU470	E	47UF,		25V	C409	ECEA1EU331	E	330UF,		25V
C212	ECEA1EU1O1	E	100UF,		25V	C410	ECEA1EU1O1	E	100UF,		25V
C213	ECEA1EU470	E	47UF,		25V	C411	ECEA1VU330	E	33UF,		35V
C214	ECUX1H102KBM	C	1000PF,	K,	50V	C412	ECSZ25EF4R7N	T	4.7UF,		25V
C215	ECEA1EU1O1	E	100UF,		25V	C413	ECEA50Z4R7	E	4.7UF,		50V
C216	ECUX1H102KBM	C	1000PF,	K,	50V	C414	ECEA1VU4R7	E	4.7UF,		35V
C217	ECEA1EU470	E	47UF,		25V	C415	ECSZ25EF3R3N	T	3.3UF,		25V
C301	ECEA1CN330S	E	33UF,		16V	C416	ECSZ25EF2R2N	T	2.2UF,		25V
C302	ECEA1CN330S	E	33UF,		16V	C417	ECEA1CU1O1	E	100UF,		16V
C303	ECEA1CN220S	E	22UF,		16V	C418	ECQM1H104KV	P	0.1UF,	K,	50V
C304	ECUX1H220JCM	E	22PF,		50V						

Ref. No.	Part No.	Description			Ref. No.	Part No.	Description		
C451	ECEA2CG4R7S	E	4.7UF,	160V	C604	ECUX1H101JCM	C	100PF,	J, 50V
C452	ECEA1HU4R7	E	4.7UF,	50V	C605	ECUX1H150JCM	C	15PF,	J, 50V
C453	ECEA5OZR22	E	0.22UF,	50V	C606	ECUX1H151JCM	C	150PF,	J, 50V
C454	ECEA2AU331	E	330UF,	100V	C607	ECUX1H103KBM	C	0.01UF,	K, 50V
C455	ECEA2CS330	E	33UF,	160V	C608	ECQM1H272JV	P	2700PF,	J, 50V
C456	ECKD2H103PE2	C	0.01UF,	P, 500V	C609	ECUX1H103KBM	C	0.01UF,	K, 50V
C457	ECEA1EN4R7S	E	4.7UF,	25V	C610	ECUX1H330JCM	C	33PF,	J, 50V
C458	ECQE2474KZ	P	0.47UF,	K, 250V	C611	ECUX1H470JCM	C	47PF,	J, 50V
C481	ECEA1CN100S	E	10UF,	16V	C612	ECUX1H100DCM	C	10PF,	D, 50V
C482	ECEA1CU470	E	47UF,	16V	C613	TCRHA070G11	TRIMMER		
C483	ECKF1H102KB	C	1000PF,	K, 50V	C614	ECEA5OZR15	E	0.15UF,	50V
C484	ECKF1H102KB	C	1000PF,	K, 50V	C615	ECQM1H822KV	P	8200PF,	K, 50V
C485	ECEA1HN010S	E	1UF,	50V	C616	ECEA1EN3R3S	E	3.3UF,	25V
C486	ECEA1EN100S	E	10UF,	25V	C617	ECUX1H102KBM	C	1000PF,	K, 50V
C503	ECQM1H104KV	P	0.1UF,	K, 50V	C618	ECUX1H060DCM	C	6PF,	D, 50V
C504	ECQM1H223KV	P	0.022UF,	K, 50V	C619	ECUX1H221KBM	C	220PF,	K, 50V
C505	ECEA1HU3R3	E	3.3UF,	50V	C620	ECUX1HG80JCM	C	68PF,	J, 50V
C506	ECQM1H103KV	P	0.01UF,	K, 50V	C621	ECQM1H273KV	P	0.027UF,	K, 50V
C511	ECQF6182KZ	P	1800PF,	K, 600V	C622	ECUX1H221KBM	C	220PF,	K, 50V
C512	ECQM1H682KV	P	6800PF,	K, 50V	C623	ECUX1H103KBM	C	0.01UF,	K, 50V
C513	ECEA1CU100	E	10UF,	16V	C624	ECEA1HUR47	E	0.47UF,	50V
C514	ECEA1CU470	E	47UF,	16V	C625	ECUX1H103KBM	C	0.01UF,	K, 50V
C515	ECEA1CU220	E	22UF,	16V	C626	ECEA1CU101	E	100UF,	16V
C516	ECEA1CN100S	E	10UF,	16V	C627	ECUX1H821JCM	C	820PF,	J, 50V
C517	ECEA25Z3R3	E	3.3UF,	25V	C628	ECEA1HU4R7	E	4.7UF,	50V
△C518	ECEA1HU010	E	1UF,	50V	C629	ECQM1H104KV	P	0.1UF,	K, 50V
C519	ECUX1H103KBM	C	0.01UF,	K, 50V	C630	ECEA1HU010	E	1UF,	50V
C520	ECUX1H103KBM	C	0.01UF,	K, 50V	C631	ECUX1H121JCM	C	120PF,	J, 50V
C551	ECEA1CN100S	E	10UF,	16V	C632	ECUX1H180JCM	C	18PF,	J, 50V
C552	ECKF1H102KB	C	1000PF,	K, 50V	C633	ECUX1H221JCM	C	220PF,	J, 50V
C553	ECKF1H102KB	C	1000PF,	K, 50V	C634	ECQM1H103KV	P	0.01UF,	K, 50V
C554	ECKF1H103ZF	C	0.01UF,	Z, 50V	C635	ECUX1H103KBM	C	0.01UF,	K, 50V
C555	ECEA1CU100	E	10UF,	16V	C636	ECUX1H101JCM	C	100PF,	J, 50V
C556	ECQM1H272JV	P	2700PF,	J, 50V	C637	ECSZ16EF33V	T	33UF,	16V
C558	ECKF1H562KB	C	5600PF,	K, 50V	C638	ECQM1H104KV	P	0.1UF,	K, 50V
C559	ECEA1CU100	E	10UF,	16V	C639	ECUX1H331JCM	C	330PF,	J, 50V
C560	ECEA1CU220	E	22UF,	16V	C640	ECEA1HU100	E	10UF,	50V
C561	ECEA1CU100	E	10UF,	16V	C641	ECUX1H103KBM	C	0.01UF,	K, 50V
C562	ECEA1CU220	E	22UF,	16V	C642	EVUX1H220JCM	C	22PF,	50V
C563	ECEA1CN100S	E	10UF,	16V	C643	ECUX1H331KBM	C	330PF,	K, 50V
C564	ECQM1H392JV	P	3900PF,	J, 50V	C644	ECUX1H821KBM	C	820PF,	K, 50V
C601	ECUX1H470JCM	C	47PF,	J, 50V	C645	ECUX1H331KBM	C	330PF,	K, 50V
C602	ECUX1H330JCM	C	33PF,	J, 50V	C646	ECEA1HU4R7	E	4.7UF,	50V
C603	ECUX1H470JCM	C	47PF,	J, 50V	C647	ECEA1HU010	E	1UF,	50V
					C648	EVUX1H220JCM	E	22PF,	50V

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description	
C649	ECUX1H221KBM	C	220PF, K, 50V	C732	ECCF1H150J	C	15PF, J, 50V
C650	ECQM1H103KV	P	0.01UF, K, 50V	C733	ECEA1CU100	E	10UF, 16V
C651	ECQM1H103KV	P	0.01UF, K, 50V	C735	ECEA1CU100	E	10UF, 16V
C652	ECUX1H121JCM	C	120PF, J, 50V	C736	ECQM1H473KV	P	0.047UF, K, 50V
C653	ECUX1H103KBM	C	0.01UF, K, 50V	C738	ECQM1H473KV	P	0.047UF, K, 50V
C654	ECQM1H474KV	P	0.47UF, K, 50V	C739	ECEAOJU101	E	100UF, 6.3V
C655	ECUX1H102KBM	C	1000PF, K, 50V	C740	ECEA1CU100	E	10UF, 16V
C656	ECUX1H121JCM	C	120PF, J, 50V	C741	ECEA1CU100	E	10UF, 16V
C657	ECUX1H331KBM	C	330PF, K, 50V	C744	ECEA1CN100S	E	10UF, 16V
C658	ECUX1H103KBM	C	0.01UF, K, 50V	C745	ECEA1CU100	E	10UF, 16V
C671	ECEA1HU100	E	10UF, 50V	C746	ECEA1CU100	E	10UF, 16V
C672	ECQM1H103KV	P	0.01UF, K, 50V	C747	ECEA1CU101	E	100UF, 16V
C673	ECEA1HU3R3	E	3.3UF, 50V	C748	ECEA1HU010	E	1UF, 50V
C674	ECUX1H103KBM	C	0.01UF, K, 50V	C749	ECEAOJU470	E	47UF, 6.3V
C675	ECQM1H183KV	P	0.018UF, K, 50V	C751	ECEAOJU470	E	47UF, 6.3V
C676	ECQM1H393KV	P	0.039UF, K, 50V	C752	ECEA1CU100	E	10UF, 16V
C677	ECQM1H473KV	P	0.047UF, K, 50V	C755	ECEA1CN470S	E	47UF, 16V
C678	ECEA1CU330	E	33UF, 16V	C756	ECEA1HU010	E	1UF, 50V
C679	ECEA1CU330	E	33UF, 16V	C757	ECEA1EN3R3S	E	3.3UF, 25V
C680	ECEA1CU330	E	33UF, 16V	C758	ECEA1EN3R3S	E	3.3UF, 25V
C701	ECEA1VU220	E	22UF, 35V	C762	ECEA1CN100S	E	10UF, 16V
C703	ECEA1HNO10S	E	1UF, 50V	C763	ECQM1H104KV	P	0.1UF, K, 50V
C704	ECEA1VU220	E	22UF, 35V	C764	ECEA1CU470	E	47UF, 16V
C705	ECEA1VU101	E	100UF, 35V	C765	ECUX1H561KBM	C	560PF, K, 50V
C706	ECQM1H104KV	P	0.1UF, K, 50V	C766	ECEA1HNO10S	E	1UF, 50V
C707	ECEA1HU010	E	1UF, 50V	C767	ECQM1H103KV	P	0.01UF, K, 50V
C708	ECQM1H333KV	P	0.033UF, K, 50V	C768	ECQM1H102KV	P	1000PF, K, 50V
C709	ECEA1HU010	E	1UF, 50V	C769	ECEA1VU100	E	10UF, 35V
C710	ECEA1HNO10S	E	1UF, 50V	C770	ECQM1H104KV	P	0.1UF, K, 50V
C711	ECCF1H680J	C	68PF, J, 50V	C771	ECEA1HN2R2S	E	2.2UF, 50V
C712	ECEA1HNO10S	E	1UF, 50V	C981	ECEA1VU220	E	22UF, 35V
C716	ECEA1HU010	E	1UF, 50V	C982	ECEA1CU220	E	22UF, 16V
C717	ECEA1EU100	E	10UF, 25V	C983	ECEA1CU100	E	10UF, 16V
C718	ECEA1HU010	E	1UF, 50V	C984	ECEA1CU220	E	22UF, 16V
C719	ECQM1H104KV	P	0.1UF, K, 50V	C985	ECEA1VU100	E	10UF, 35V
C720	ECEA1HNO10S	E	1UF, 50V	C986	ECEA1VU100	E	10UF, 35V
C721	ECQM1H104KV	P	0.1UF, K, 50V	C987	ECEA1EU470	E	47UF, 25V
C722	ECEA1HU010	E	1UF, 50V	C988	ECEA1EU470	E	47UF, 25V
C723	ECEA1CU100	E	10UF, 16V	C989	ECEA1HU010	E	1UF, 50V
C724	ECQM1H104KV	P	0.1UF, K, 50V	C990	ECEA1HU010	E	1UF, 50V
C725	ECEA1CU101	E	100UF, 16V	C991	ECEA1HU010	E	1UF, 50V
C726	ECEA1HU010	E	1UF, 50V	C992	ECEA1CN100S	E	10UF, 16V
C727	ECEA1HU010	E	1UF, 50V	C993	ECEA1CN100S	E	10UF, 16V
C730	ECQM1H473KV	P	0.047UF, K, 50V	C994	ECEA1CU100	E	10UF, 16V
C731	ECEA1EU221	E	220PF, 25V				

Ref. No.	Part No.	Description			Ref. No.	Part No.	Description		
C1001	ECEA1CU100	E	10UF,	16V	C1418	ECQE12683KZ	P	0.068UF, K, 1.2KV	
C1004	ECEA1CU101	E	100UF,	16V	C1420	ECEA1VU101	E	100UF, 35V	
C1005	ECEA1CU101	E	100UF,	16V	C1501	ECEA1CN330S	E	33UF, 16V	
C1006	ECEA1AU101	E	100UF,	10V	C1502	ECQM1H333KV	P	0.033UF, K, 50V	
C1007	ECEA1CU101	E	100UF,	16V	C1503	ECEA1VU220	E	22UF, 35V	
					C1504	ECEA1CU331	E	330UF, 16V	
C1008	ECEA1EU470	E	47UF,	25V					
C1010	ECKF1H103ZF	C	0.01UF, Z,	50V	C1505	ECQM1H333KV	P	0.033UF, K, 50V	
C1011	ECEA2ES100	E	10UF,	250V	C1506	ECEA1HU100	E	10UF, 50V	
C1012	ECEA1CU100	E	10UF,	16V	C1507	ECEA1CN100S	E	10UF, 16V	
C1013	ECEA1CU330	E	33UF,	16V	C1508	ECQM1H333KV	P	0.033UF, K, 50V	
					C1509	ECQM1H333KV	P	0.033UF, K, 50V	
C1201	ECEA1CN330S	E	33UF,	16V					
C1202	ECEA1CN220S	E	22UF,	16V	C1510	ECEA1VU220	E	22UF, 35V	
C1203	ECEA1HNO10S	E	1UF,	50V	C1511	ECEA1CU331	E	330UF, 16V	
C1204	ECEA1HUO10	E	1UF,	50V	C1512	ECEA1HU4R7	E	4.7UF, 50V	
					C1513	ECKF1H103ZF	C	0.01UF, Z, 50V	
C1205	ECEA1CN100S	E	10UF,	16V	C1514	ECKF1H103ZF	C	0.01UF, Z, 50V	
C1206	ECEA1HU4R7	E	4.7UF,	50V	C1515	ECEA2CS100	E	10UF, 160V	
C1207	ECEA1CU101	E	100UF,	16V	C1516	ECEA2CS3R3	E	3.3UF, 160V	
C1208	ECEA1CU470	E	47UF,	16V	C1517	ECEA2CS330	E	33UF, 160V	
C1209	ECEA1EN4R7S	E	4.7UF,	25V	C1518	ECEA2CS100	E	10UF, 160V	
					C1519	ECEA2CS3R3	E	3.3UF, 160V	
C1210	ECEA1CU470	E	47UF,	16V					
C1211	ECCF1H121JP	C	120PF, J,	50V	C1521	ECQE2105KS	P	1UF, K, 250V	
C1212	ECEA1CN220S	E	22UF,	16V	C1522	ECEAOJU222	E	2200UF, 6.3V	
C1213	ECEA1CN330S	E	33UF,	16V	C1523	ECQV1H474JZ	P	0.47UF, J, 50V	
C1214	ECEA1CN330S	E	33UF,	16V	C1524	ECQM1H333KV	P	0.033UF, K, 50V	
					C1551	ECKD2H182KB2	C	1800PF, K, 500V	
C1215	ECEA1HNO10S	E	1UF,	50V	C1552	ECKD3D222JBN	C	2200PF, J, 2KV	
C1216	ECEA1CU101	E	100UF,	16V	C1553	ECQM1H273KV	P	0.027UF, K, 50V	
C1217	ECKF1H103ZF	C	0.01UF, Z,	50V	C1555	ECWH12H682JS	P	6800PF, J, 1.2KV	
C1282	ECUX1H681JCM	C	680PF, J,	50V	C1556	ECQE2105KS	P	1UF, K, 250V	
C1401	ECES2CV221S	E	220UF,	160V					
C1402	ECEA1VU102	E	1000UF,	35V	C1557	ECQE2105KS	P	1UF, K, 250V	
C1403	ECKD2H182KB2	C	1800PF, K,	500V	C1558	ECQM1H273KV	P	0.027UF, K, 50V	
C1404	ECEA1CU102	E	1000UF,	16V	C1559	ECEA1HU100	E	10UF, 50V	
C1405	ECQE2475KS	P	4.7UF, K,	250V	C1560	ECKF1H152KB	C	1500PF, K, 50V	
C1406	ECEA1VU4R7	E	4.7UF,	35V	C1561	ECEA1HU100	E	10UF, 50V	
					C1562	ECQM1104KZ	P	0.1UF, K, 100V	
C1407	ECKF1H472ZF	C	4700PF, Z,	50V					
C1408	ECQE2104KS	P	0.1UF, K,	250V	C1601	ECEA1EN100S	E	10UF, 25V	
C1409	ECKD2H151KB2	C	150PF, K,	500V	C1602	ECEA1VU100	E	10UF, 35V	
C1411	ECEA1HUR47	E	0.47UF,	50V	C1603	ECEA1EN100S	E	10UF, 25V	
C1412	ECQE2474MS	P	0.47UF, M,	250V	C1604	ECEA1EU220	E	22UF, 25V	
					C1701	ECKF1H103ZF	C	0.01UF, Z, 50V	
△C1414	ECKD3D222JBN	C	2200PF, J,	2KV	C1702	ECCF1H471J	C	470PF, J, 50V	
△C1415	ECKD3D222JBN	C	2200PF, J,	2KV	C1703	ECCF1H561J	C	560PF, J, 50V	
△C1416	ECKD3D222JBN	C	2200PF, J,	2KV	C1704	ECKD2H103MD2	C	0.01UF, M, 500V	
C1417	ECQE10683KU	P	0.068UF, K,	1KV	C1705	ECKD3D222JBN	C	2200PF, J, 2KV	

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C1707	ECEA2ES010	E 1UF, 250V	C9223	ECEA1CU222	E 2200UF, 16V
C1801	ECKF1H103ZF	C 0.01UF, Z, 50V	ΔC9224	ECEA2CS101	E 100UF, 160V
C1802	ECCF1H471J	C 470PF, J, 50V	C9225	ECKD2H472PE8	C 4700PF, P, 500V
C1803	ECCF1H561J	C 560PF, J, 50V	C9226	ECKF1H101KB	C 100PF, K, 50V
C1804	ECKD2H103MD2	C 0.01UF, M, 500V	C9227	ECEA1CU222	E 2200UF, 16V
C1805	ECKD3D222JBN	C 2200PF, J, 2KV	C9228	ECKF1H472KB	C 4700PF, K, 50V
C1807	ECEA2ES010	E 1UF, 250V	C9229	ECEA2WS2R2	E 2.2UF,
C1901	ECKF1H103ZF	C 0.01UF, Z, 50V	ΔC9230	ECKDNS102MBX	C 1000PF,
C1902	ECCF1H471J	C 470PF, J, 50V	ΔC9231	ECKDNS222MEX	C 2200PF,
C1903	ECCF1H561J	C 560PF, J, 50V	C9232	ECKF1H682KB	C 6800PF, K, 50V
C1904	ECKD2H103MD	C 0.01UF, M, 500V	C9233	ECKF1H102KB	C 1000PF, K, 50V
C1905	ECKD3D222JBN	C 2200PF, J, 2KV	C9301	ECQM4223KZ	P 0.022UF, K, 400V
C1907	ECEA2ES010	E 1UF, 250V	C9302	ECEA1CU221	E 220UF, 16V
C3001	ECKF1H103ZF	C 0.01UF, Z, 50V	C9303	ECEA1CU101	E 100UF, 16V
ΔC9001	ECKD2H472PE8	C 4700PF, 500V	C9305	ECKD2H272KB2	C 2700PF, K, 500V
ΔC9002	ECKD2H472PE8	C 4700PF, 500V	C9306	ECEA1AU331	E 330UF, 10V
ΔC9003	ECKD2H472PE8	C 4700PF, 500V	C9307	ECKD3D101KBN	C 100PF, K, 2KV
ΔC9004	ECKD2H472PE8	C 4700PF, 500V	C9308	ECKD3D101KBN	C 100PF, K, 2KV
ΔC9005	ECES2GU221T	E 220UF, 400V	C9309	ECKD2H102KB2	C 1000PF, K, 500V
ΔC9006	ECES2GU221T	E 220UF, 400V	C9310	ECKD3A221KBN	C 220PF, 1KV
C9008	ECKF1H472KB	C 4700PF, K, 50V	ΔC9311	ECES2CG471M	E 470UF, 160V
ΔC9010	ECQE6334KZ	P 0.33UF, M, 600V	C9312	ECKD2H472PE8	C 4700PF, P, 500V
C9101	ECEA1VU331	E 330UF, 35V	C9313	ECKF1H222KB	C 2200PF, K, 50V
C9102	ECKF1H103ZF	C 0.01UF, Z, 50V	C9314	ECKF1H101KB	C 100PF, K, 50V
C9201	ECQM4223KZ	P 0.022UF, K, 400V	ΔC9315	ECEA1EU331	E 330UF, 25V
C9202	ECEA1CU221	E 220UF, 16V	C9316	ECKF1H102KB	C 1000PF, K, 50V
C9203	ECEA1CU470	E 47UF, 16V	C9317	ECEA2WS4R7	E 4.7UF, 450V
C9205	ECKD2H272KB2	C 2700PF, K, 500V	C9401	ECEA1EU100	E 10UF, 25V
C9206	ECEA1AU331	E 330UF, 10V	C9402	ECEA1EU102	E 1000UF, 25V
C9207	ECKD3D101KBN	C 100PF, K, 2KV	C9403	ECEA1EU100	E 10UF, 25V
C9208	ECKD3D101KBN	C 100PF, K, 2KV	C9404	ECEA1EU102	E 1000UF, 25V
C9209	ECKF1H101KB	C 100PF, K, 50V	C9405	ECEA1CU100	E 10UF, 16V
C9211	ECKD2H101KB2	C 100PF, K, 500V	C9406	ECEA1CU102	E 1000UF, 16V
C9212	ECKF1H101KB	C 100PF, K, 50V	C9407	ECEA1VU331	E 330UF, 35V
C9213	ECKF1H101KB	C 100PF, K, 50V	ΔC9501	ECQE6334KZ	P 0.33UF, 600V
C9214	ECKD3A101KBN	C 100PF, 1KV	ΔC9502	ECKDNS102MBX	C 1000PF, 600V
ΔC9215	ECEA1EG222S	E 2200UF, 25V	ΔC9503	ECKDNS102MBX	C 1000PF, 600V
C9216	ECKF1H472KB	C 4700PF, K, 50V	COILS		
ΔC9217	ECEA2ES220	E 22UF, 250V	L201	TLP408	FERRITE CORE
C9218	ECKD2H472PE8	C 4700PF, P, 500V	L202	TLP408	FERRITE CORE
C9219	ECEA1VG221S	E 220UF, 35V	L203	TLP408	FERRITE CORE
C9220	ECKF1H472KB	C 4700PF, K, 50V	L204	TLP408	FERRITE CORE
ΔC9221	ECEA1EU222	E 2200UF, 25V	L205	TLP408	FERRITE CORE
C9222	ECKF1H472KB	C 4700PF, K, 50V	L206	TLP408	FERRITE CORE

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L301	EFDMA645B85F	DELAY LINE	△L9001	TLP13514V	FILTER
L302	TLK158064	CHROMA IF TRANS.	△L9003	TSK1004	COIL
L303	TLK860-1	DELAY LINE, VIDEO	L9208	TSC925-4	CHOKE COIL
L304	TLX820J166C	PEAKING COIL	L9209	TLQ100J126	PEAKING COIL 10U
L305	TLT180K991K	PEAKING COIL 18U	L9212	TLT300K119C	PEAKING COIL
L401	TLT221K991K	PEAKING COIL 22U	L9213	TSC925-4	CHOKE COIL
L601	TLT150J991K	PEAKING COIL 15U	L9215	TLQ100K126	PEAKING COIL 10U
L602	TLT120J991K	PEAKING COIL 12U	L9301	TSC925-4	CHOKE COIL
L603	TLT681K991K	PEAKING COIL 68U	L9302	TSC925-4	CHOKE COIL
L604	TLT820J991K	PEAKING COIL 82U	L9305	TLQ120J126	PEAKING COIL 12U
L605	TLT100J991K	PEAKING COIL 10U	L9306	TLQ100J126	PEAKING COIL 10U
L606	TLT681K991K	PEAKING COIL 68U	△L9501	TLP13514V	
L607	TLT512J166C	PEAKING COIL 5.1M	TRANSFORMERS		
L608	TLT681K991K	PEAKING COIL 68U	T1401	TLH6433	H DRIVE TRANS.
L609	TLT390K991K	PEAKING COIL 39U	△T1402	TLF14582F1	FLYBACK TRANS
L610	TLT047K991K	PEAKING COIL 4.7U	T1551	TLH6433	H DRIVE TRANS.
L611	TLK61008	HI-PEAKER TRANS.	T1552	TLH15808	COIL
L612	TLT150K991K	PEAKING COIL 15U	△T9101	ETP41D103E	REMOCON TRANS
L613	TLT100K991K	PEAKING COIL 10U	△T9201	ETS49K250A	SWITCHING TRANS
L614	TLT121K991K	PEAKING COIL 12U	T9202	TLP15724	CHOPPER TRANS.
L615	TLK155053	CHROMA IF TRANS.	△T9301	ETS49K251A	SWITCHING TRANS
L616	TLT150K991K	PEAKING COIL 15U	T9302	TLP15724	CHOPPER TRANS.
L617	TLK158066	1H MATCHING COIL	DIODES		
L618	TLQ082J205C	PEAKING COIL 8.2U	D9	MA151K	DIODE
L619	TLK61008	HI-PEAKER TRANS.	D10	MA151K	DIODE
L620	TLK61008	HI-PEAKER TRANS.	D11	MA151K	DIODE
L621	EFDEN645A11G	DELAY LINE	D12	MA151K	DIODE
L622	TLK66056-1	CHROMA TRANS.	D14	MA151K	DIODE
L1201	TLT542K991K	PEAKING COIL 5.4M	D15	MA151WK	DIODE
L1401	TLT030L119C	PEAKING COIL 3U	D16	MA1068	ZENER DIODE
L1402	TSC911	BEAD CHOKE	D17	MA151WK	DIODE
L1501	TLT152K139G	PEAKING COIL 1.5M	D18	MA1068	ZENER DIODE
L1551	TLT030L119C	PEAKING COIL 3U	D19	MA151WK	DIODE
L1552	TLH6663P	LINEALITY COIL	D20	MA1068	ZENER DIODE
L1553	TSC911	BEAD CHOKE	D21	MA1110M	ZENER DIODE
L1701	TLQ470J126	PEAKING COIL 47U	D22	MA151K	DIODE
L1702	TLQ120J126	PEAKING COIL 12U	D23	MA151K	DIODE
L1703	TLQ101K126	PEAKING COIL 100U	D24	MA1068	ZENER DIODE
L1801	TLQ470K126	PEAKING COIL 47U	D25	MA1036	ZENER DIODE
L1802	TLQ120J126	PEAKING COIL 12U	D26	MA151WK	DIODE
L1803	TLQ101K126	PEAKING COIL 100U	D27	MA151K	DIODE
L1901	TLQ470K126	PEAKING COIL 47U	D28	MA151K	DIODE
L1902	TLQ120J126	PEAKING COIL 12U			
L1903	TLQ101K126	PEAKING COIL 100U			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D30	MA151K	DIODE	D601	MA156	DIODE
D31	MA151K	DIODE	D602	MA151K	DIODE
D32	MA151K	DIODE	D603	MA151K	DIODE
D33	MA151K	DIODE	D604	MA162	DIODE
D34	MA151K	DIODE	D606	MA27WA	DIODE
D35	MA151K	DIODE	D671	MA151K	DIODE
D36	MA151K	DIODE	D672	MA151K	DIODE
D37	MA151K	DIODE	D673	MA151K	DIODE
D38	MA151K	DIODE	D674	MA151K	DIODE
D39	MA151K	DIODE	D675	OA91	DIODE
D40	MA151K	DIODE	D676	MA151WK	DIODE
D41	TVSQB106R	ZENER DIODE	D701	MA151K	DIODE
D42	MA151K	DIODE	D706	MA162	DIODE
D43	MA151K	DIODE	D710	TVSRD6.2EB	ZENER DIODE
D45	MA151WK	DIODE	D712	TVSQA206C	ZENER DIODE
D46	MA151WK	DIODE	D713	MA162	DIODE
D47	MA151WK	DIODE	D714	TVSRD2.7EB1	ZENER DIODE
D48	MA151K	DIODE	D715	TVSRD2.7EB1	ZENER DIODE
D301	OA90G	DIODE	D716	MA162	DIODE
D302	MA27WA	DIODE	D717	MA162	DIODE
			D718	MA162	DIODE
D303	MA151K	DIODE	D719	MA151A	DIODE
D305	MA27T-A	DIODE	D720	MA28T-A	DIODE
D306	MA151WK	DIODE	D721	MA28T-A	DIODE
D307	MA151K	DIODE	D722	MA151WA	DIODE
D310	MA28W	DIODE	D723	TVSRD6.2EB	ZENER DIODE
D401	MA154WK	DIODE	D724	MA151K	DIODE
D402	MA154WK	DIODE	D725	MA151K	DIODE
D403	MA154WK	DIODE	D726	TVSQA211D	DIODE
D404	MA28T-A	DIODE	D727	TVSRD9.1EB	ZENER DIODE
D405	MA28T-A	DIODE	D728	TVSQA206C	ZENER DIODE
D406	MA151K	DIODE	D1001	MA1130M	ZENER DIODE
D407	MA28T-A	DIODE	D1002	MA162	DIODE
D408	MA28T-A	DIODE	D1004	TVSRM1	DIODE
D409	MA1200M	DIODE	D1005	MA1130	ZENER DIODE
D410	MA151A	DIODE	D1009	MA1130	ZENER DIODE
D451	MA27W	DIODE	D1010	MA1130	ZENER DIODE
D482	MA162	DIODE	D1011	MA1130	ZENER DIODE
D483	MA162	DIODE	D1014	MA1130	ZENER DIODE
D484	MA162	DIODE	D1015	MA1130	ZENER DIODE
D503	TVSQA211M	ZENER DIODE	D1016	MA1130	ZENER DIODE
△D507	TVSQA207M3	ZENER DIODE	D1017	MA1130	ZENER DIODE
D508	TVSRM1Z	DIODE	D1018	MA1130	ZENER DIODE
D551	MA162	DIODE	D1019	MA1130	ZENER DIODE

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D1021	MA1062M	ZENER DIODE	D9208	TVSRG4YK2	DIODE
D1022	MA27T-B		△D9209	TVSC2406M	DIODE
D1201	MA150	DIODE	D9210	ESAC85009F9	DIODE
D1202	MA1051	ZENER DIODE	D9211	TVSQA212B	ZENER DIODE
D1203	MA150	DIODE	D9212	MA1150M	DIODE
D1204	MA150	DIODE	D9213	MA162	DIODE
D1205	MA150	DIODE	D9214	MA162	DIODE
D1402	MA150	DIODE	△D9215	ON3105	PHOTO COUPLER
D1403	MA162	DIODE	D9301	TVSB4402	DIODE
△D1404	MA1091	ZENER DIODE	D9302	TVSB4402	DIODE
D1405	MA162	DIODE	D9303	TVSC2408M	DIODE
D1407	MA162	DIODE	D9304	TVSQA212B	ZENER DIODE
D1408	TVSRU1	DIODE	△D9305	CTG-26SLF-I	DIODE
D1409	TVSRU2	DIODE	△D9306	MA1120M	ZENER DIODE
D1410	TVSRU2	DIODE	D9307	MA1150M	DIODE
D1411	TVSRU2	DIODE	△D9308	TVSRG2Z	DIODE
D1412	TVSEM1Z	DIODE	D9310	MA162	DIODE
D1413	TVSEM1Z	DIODE	D9311	MA162	DIODE
D1415	MA156	DIODE	△D9312	ON3105	PHOTO COUPLER
D1551	TVSC2715M	DIODE	D9401	TVSQB115ZB	ZENER DIODE
D1601	TVSRC2	DIODE	D9402	MA27T-B	
D1602	TVSRC2	DIODE	D9403	TVSQB115ZB	ZENER DIODE
D1701	TVSRC2	DIODE	D9404	MA27T-B	
D1801	TVSRC2	DIODE	D9405	MA1100H	
D1901	TVSRC2	DIODE	D9406	MA27T-B	ZENER DIODE
△D9001	TVSCO110	DIODE		I.C	
△D9002	TVSCO110	DIODE	IC10	TVS4LS04	IC (HEX INVERTER)
△D9003	TVSCO110	DIODE	IC11	TVS4LS10	IC (NAND GATE)
△D9004	TVSCO110	DIODE	IC12	TC4053BP	BLUE MODE SELECT
D9005	MA162	DIODE	IC13	TC4053BP	BLUE MODE SELECT
D9006	MA162	DIODE	IC14	TC4053BP	VIDEO/RGB SWITCHING
D9007	TVSQA209C	ZENER DIODE	IC15	AN610P	SHADING CORRECTION(R)
D9008	TVSQA211M	ZENER DIODE	IC16	AN610P	SHADING CORRECTION(G)
△D9009	ERZC10DK431	VARISTOR	IC17	AN610P	SHADING CORRECTION(B)
D9101	TVSRM1OB	DIODE	IC18	AN5355	VIDEO/TEST SWITCHING
D9102	TVSQA211M	ZENER DIODE	IC19	TC4040BP	GROSSHATCH
D9103	MA162	DIODE			GENERATOR
D9104	LN21RPHL	LED (RED)	IC301	MN4066B	IC (SWITCH)
D9201	TVSB4402	DIODE	IC302	AN5615	IC (VIDEO)
D9202	TVSB4402	DIODE	△ IC401	AN5429	IC (DEF, SYNC)
D9203	TVSC2408M	DIODE	IC405	AN90C23	SELECTOR
△D9204	ESAC85009	DIODE	IC406	AN90C23	SELECTOR
△D9205	TVSC2408M	DIODE	IC501	AN90C23	SELECTOR
D9206	TVSRG2Z	DIODE	IC502	AN90C23	SELECTOR
△D9207	MA650	DIODE	IC551	BA236B	HD DELAY

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
IC552	TVSTC4053BP	IC (MULTIPREXER)	Q29	2SB709-R	EMITTER FOLLOWER
IC554	AN78M05LB	IC (VOLTAGE REG.)	Q30	2SD601-R	MIX
IC601	AN5625N	IC (PAL COLOR)	Q31	2SD601-R	EMITTER FOLLOWER
IC602	AN5635N	IC (SECAM COLOR)	Q32	2SD601-R	EMITTER FOLLOWER
IC671	AN5641	IC (SYSTEM)	Q33	2SB709-R	EMITTER FOLLOWER
IC701	TVSSTK4101M2	IC PWB	Q34	2SB709-R	EMITTER FOLLOWER
IC702	TVSSTK4101M2	IC PWB	Q35	2SB709-R	EMITTER FOLLOWER
IC703	TVSSTK4101M2	IC PWB	Q36	2SB709-R	EMITTER FOLLOWER
IC704	AN904	IC (DIFF AMP)	Q37	2SB709-R	EMITTER FOLLOWER
IC705	AN904	IC (DIFF AMP)	Q38	2SB709-R	EMITTER FOLLOWER
IC706	AN904	IC (DIFF AMP)	Q39	2SD601-R	BLACK LEVEL CLAMP
IC707	AN904	IC (DIFF AMP)	Q40	2SD601-R	BLACK LEVEL CLAMP
IC1001	AN78M05	IC (VOLTAGE REG.)	Q41	2SD601-R	BLACK LEVEL CLAMP
IC1002	TC4053BP	INPUT SELECT MANU/ REMO	Q42	2SD601-R	BLACK LEVEL CLAMP
IC1003	TC4053BP	INPUT SELECT MANU/ REMO	Q43	2SD601-R	BLACK LEVEL CLAMP
IC1004	TC4053BP	INPUT SELECT MANU/ REMO	Q44	2SD601-R	BLACK LEVEL CLAMP
IC1201	TVSTC4066BP	IC (SWITCH)	Q45	2SD601-R	BLACK LEVEL CLAMP
ΔIC9201	TNH11505AZ	OSC CONTROL ARD	Q46	2SD601-R	BLACK LEVEL CLAMP
ΔIC9301	TNH11505AZ	OSC CONTROL	Q47	2SB709-R	AMP.
			Q48	2SB709-R	AMP.
			Q49	2SB709-R	AMP.
			Q50	2SB709-R	EMITTER FOLLOWER
			Q51	2SB709-R	EMITTER FOLLOWER
			Q52	2SB709-R	EMITTER FOLLOWER
			Q53	2SD601-R	SAW WAVE CONTROL
			Q54	2SD601-R	AMP.
			Q55	2SD601-R	V. SAW WAVE CONTROL
			Q56	2SD601-R	EMITTER FOLLOWER
			Q57	2SD601-R	INVERTER
			Q58	2SD601-R	INVERTER
			Q59	2SD601-R	SWITCH
			Q60	2SD601-R	SWITCH
			Q61	2SD601-R	SWITCH
			Q62	2SB709-R	EMITTER FOLLOWER
			Q63	2SB709-R	EMITTER FOLLOWER
			Q64	2SB709-R	EMITTER FOLLOWER
			Q68	2SD601-R	INVERTER
			Q69	2SB709-R	PROTECTOR
			Q70	2SD601-R	COMPOSITE SYNC ON
			Q71	2SD601-R	PROTECTOR
			Q72	2SD601-R	H. PULSE ON
			Q73	2SB709-R	INVERTER
			Q74	2SD601-R	INVERTER
			Q75	2SD601-R	INVERTER
			Q76	2SD601-R	MULTIVIBRATOR
TRANSISTORS					
Q9	2SD601-R	BUFFER			
Q10	2SD601-R	BUFFER			
Q11	2SD601-R	BUFFER			
Q12	2SC2295-B	AMP.			
Q13	2SC2295-B	AMP.			
Q14	2SC2295-B	AMP.			
Q15	2SC2295-B	CLAMP			
Q16	2SC2295-B	CLAMP			
Q17	2SC2295-B	CLAMP			
Q18	2SD601-R	CLAMP			
Q19	2SD601-R	CLAMP			
Q20	2SD601-R	CLAMP			
Q21	2SB709-R	EMITTER FOLLOWER MIX			
Q22	2SB709-R	FINE BLUE COMPOSITION			
Q23	2SB709-R	EMITTER FOLLOWER MIX			
Q24	2SB709-R	EMITTER FOLLOWER			
Q25	2SD601-R	SQUARE WAVE GENERATOR			
Q26	2SD601-R	SQUARE WAVE GENERATOR			
Q27	2SD601-R	EMITTER FOLLOWER MIX			
Q28	2SB709-R	MIX			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q77	2SD601-R	MULTIVIBRATOR	Q408	2SB709A-R	V-HOLD
Q78	2SDG01-R	INVERTER	Q409	2SB709A-R	AMP.
Q79	2SD601-R	EMITTER FOLLOWER	Q410	2SB709A-R	AMP.
Q80	2SD601-R	MIX	Q411	2SB709A-R	AMP.
Q81	2SD601-R	MIX	Q412	2SB709A-R	AMP.
Q82	2SD601-R	MIX	Q413	2SB709A-R	AMP.
Q83	2SD601-R	INVERTER	Q414	2SC1685-R	AVR.
Q84	2SD601-R	TEST ON	Q451	2SC1505	V. DRIVE
Q85	2SD601-R	BLACK LEVEL CLAMP	Q452	2SC2168	V. OUT
Q86	2SD601-R	AMP.	Q453	2SA958F	V. OUT
Q87	2SD601-R	EMITTER FOLLOWER	Q481	2SD601A-R	AMP.
Q88	2SD601-R	INVERTER	Q482	2SD601A-R	AMP.
Q89	2SD601-R	INVERTER	Q483	2SD601A-R	SYNC SEPARATOR
Q90	2SD601-R	RGB ON	△ Q510	2SD601A-R	
Q91	2SD601-R	SQUARE WAVE GENERATOR	△ Q511	2SB709A-R	SHUT DOWN
Q92	2SB709-R	V. BLANKING PULSE GENERATOR	△ Q512	2SD601A-R	
Q93	2SD601-R	V. BLANKING PULSE GENERATOR	Q551	2SD601A-R	AMP.
Q95	2SD601-R	RGB ON	Q553	2SD601A-R	SYNC SEPARATOR
			Q559	2SD601A-R	INVERTER
Q301	2SD601-R	SWITCHING CONTROL	Q601	2SD601-R	PHASE SHIFT
Q302	2SD601-R		Q602	2SB709-R	APC FILTER SWITCH
Q303	2SB709-R	} SYNC CLAMP	Q603	2SD601-R	BUFFER
Q304	2SB709-R		Q604	2SD601-R	IDENT GAIN SWITCH
Q305	2SD601-R	EMITTER FOLLOWER	Q605	2SD601-R	
Q306	2SD601-R	BUFFER	Q671	2SD601-R	SECAM KILLER SWITCH
Q307	2SD601-R	BUFFER	Q672	2SD601-R	SECAM KILLER SWITCH
Q308	2SD601-R	AMP.	Q673	2SD601-R	TRAP SWITCH
Q309	2SD601-R	AMP.	Q674	2SD601-R	SECAM KILLER SWITCH
Q310	2SD601-R	BUFFER	Q675	2SD601-R	SWITCHING
			Q676	2SD601-R	50 Hz/60 Hz SWITCH
Q311	2SD601-R	VIDEO AMP.	Q701	2SD601A-R	WAVEFORM SHAPING
Q312	2SB709-R	VIDEO AMP.	Q702	2SD601A-R	WAVEFORM SHAPING
Q313	2SB709-R	BUFFER	Q703	2SD601A-R	AMP.
Q314	2SD601-R		Q705	2SD601A-R	EMITTER FOLLOWER
Q315	2SB709-R	} C-Y MATRIX (R)	Q706	2SD601A-R	EMITTER FOLLOWER
Q316	2SB709-R		Q707	2SD601A-R	EMITTER FOLLOWER
Q317	2SD601-R		Q708	2SD601A-R	EMITTER FOLLOWER
Q318	2SB709-R	} C-Y MATRIX (G)	Q709	2SD601A-R	EMITTER FOLLOWER
Q319	2SB709-R		Q712	2SD601A-R	} H. PARABOLA
Q320	2SD601-R		Q713	2SD601A-R	} WAVE AMP.
Q321	2SB709-R	} C-Y MATRIX (B)	Q714	2SD601A-R	EMITTER FOLLOWER
Q322	2SB709-R		Q715	2SD601A-R	SWITCHING
Q323	2SD601-R	BUFFER	Q716	2SD601A-R	EMITTER FOLLOWER
Q324	2SD601-R	SWITCHING	Q717	2SD601A-R	INVERTER
Q325	2SD601-R	SWITCHING	Q718	2SD601A-R	AMP.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q719	2SD601A-R	EMITTER FOLLOWER	Q1010	2SC1685-Q	PINSTER OFF SW.
Q720	2SD601A-R		Q1201	2SC1685-Q	
Q721	2SB709A-R		Q1202	2SA564A	
Q722	2SD601A-R		Q1203	2SC1685-Q	SYNC. SEPARATOR
Q723	2SD601A-R		Q1204	2SC1685-Q	
Q724	2SB709A-R	CORNER CORRECTION	Q1205	2SC1685-Q	
Q725	2SD601A-R	WAVE GENERATOR	Q1206	2SC1685-Q	
Q726	2SD601A-R		Q1207	2SC1685-Q	
Q727	2SD601A-R		Q1208	2SC1685-Q	
Q728	2SB709A-R		Q1209	2SC1685-Q	
Q729	2SD601A-R		Q1210	2SC1685-Q	
Q730	2SD601A-R		Q1211	2SC1685-Q	
Q731	2SB709A-R		Q1212	2SC1685-Q	VIDEO SEPARATOR
Q732	2SD601A-R	SWITCHING	Q1213	2SC1685-Q	
Q733	2SB709A-R	EMITTER FOLLOWER	Q1214	2SC1685-Q	
Q734	2SB709A-R	OVER CURRENT			
		PROTECT	Q1215	2SC1685-Q	
Q735	2SD601A-R	OVER CURRENT	Q1216	2SC1685-Q	
		PROTECT	Q1217	2SA564-R	
Q736	2SD601A-R	EMITTER FOLLOWER	Q1218	2SA564-R	
Q737	2SB709A-R	EMITTER FOLLOWER			
Q738	2SD601A-R	SWITCHING	Q1219	2SC1685-Q	SWITCHING CONTROL
Q739	2SD601A-R	H. SAW TOOTH WAVE	Q1220	2SC1685-Q	SYNC. INVERSION SW.
Q740	2SD601A-R	EMITTER FOLLOWER	Q1221	2SC1685-Q	SYNC. INVERSION SW.
Q741	2SD601A-R	EMITTER FOLLOWER	Q1222	2SC1685-Q	SYNC. SEPARATION
Q742	2SD601A-R	EMITTER FOLLOWER	Q1401	2SC1573-Q	VOLTAGE COMPENSATOR
			Q1402	2SC1573-Q	LINEALITY CORRECTION
Q981	2SD601A-R	KEYSTONE CORRECTION	Q1403	2SC1505	HV-DRIVE
Q982	2SD601A-R	SIDE PIN CORRECTION	ΔQ1404	2SD1457A	HV-REGULATOR
Q983	2SD601A-R	AMP.	ΔQ1405	2SC1573-Q	HIGH VOLTAGE
Q984	2SD601A-R	EMITTER FOLLOWER	ΔQ1406	2SC1685-R	REGULATOR
Q985	2SD601A-R				HIGH VOLTAGE
Q986	2SD601A-R	OVER CURRENT	Q1407	2SD1175	REGULATOR
Q987	2SD601A-R	PROTECT	ΔQ1408	2SC1573-Q	HV-REGULATOR
Q988	2SB709A-R		ΔQ1409	2SC1573-Q	HIGH VOLTAGE
Q989	2SD601A-R	SIDE EDGE CORRECTION			REGULATOR
Q990	2SB709A-R		Q1501	2SC1573-R	KEYSTONE AMP.
Q991	2SB709A-R	CORNER CORRECTION	Q1502	2SC1573-R	
Q992	2SD601A-R	WAVE GENERATOR	Q1503	2SC1573-R	
Q993	2SD601A-R	AMP.	Q1504	2SC1573-R	SIDE PINCUSHION
Q994	2SD601A-R	EMITTER FOLLOWER	Q1505	2SC1573-R	AMP.
Q995	2SD601A-R	EMITTER FOLLOWER	Q1506	2SC1573-R	
			Q1507	2SA879-P	
Q1001	2SA564A	EMITTER FOLLOWER	Q1508	2SA879-P	REGULATOR
Q1002	2SC1685-Q	RGB/COMP OFF	Q1509	2SC1573-R	REGULATOR
Q1003	2SC1685-Q	RGB ON	Q1510	2SC1573-R	RIPPLE FILTER
Q1004	2SA564A	COMP ON	Q1511	2SD1457A	RIPPLE FILTER
Q1005	2SD1273	AVR	Q1512	2SC1573-R	PINCUSHION AMP.
					AMP.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q1513	2SC1573-R	AMP.		TJS118930	36P CONNECTOR
Q1514	2SC1685-R	AMP.		TJS148500	CONNECTOR
Q1551	2SC1505	H-DIRVE		TJS168440	3P SHORT PLUG
Q1552	2SD1175	H. OUT		TJS168960	2P CONNECTOR
Q1601	2SC1685-R	INVERTER		TJS168970	3P CONNECTOR
Q1602	2SC1685-R	INVERTER		TJS168980	4P CONNECTOR
Q1603	2SD1346	INVERTER		TJS168990	5P CONNECTOR
Q1701	2SC1819M	R OUT		TJS169010	CONNECTOR
Q1801	2SC1819M	G OUT		TJS169020	8P CONNECTOR
Q1901	2SC1819M	B OUT		TJS169030	10P CONNECTOR
Q9001	2SC1573B	REGULATOR		TJS169040	12P CONNECTOR
Q9002	2SC1573B	REGULATOR		TJS169050	CONNECTOR (15P)
Q9101	2SD1273	12V REGULATOR		TJS169061	2P CONNECTOR
Q9201	2SD1539	SWITCHING DRIVE		TJS169071	CONNECTOR
Q9202	2SB1071	SWITCHING OUT		TJS169081	CONNECTOR
△Q9203	2SC3507	SWITCHING OUT		TJS169121	CONNECTOR 10P
Q9301	2SD1539	SWITCHING DRIVE		TJS169131	CONNECTOR
Q9302	2SB1071	SWITCHING DRIVE		TKG139973	LENS (R/G)
△Q9303	2SC3507	SWITCHING OUT		TKG139972	LENS (B)
Q9401	2SD1273	17V AVR		TKK130719	LENS CAP
Q9402	2SB941	-17V AVR		TKN13511	FAN NET
Q9403	2SD1273	12V AVR		TKP1311512-1	CONVER DOOR
Q9404	2SC1318-R	27V REGULATOR		TKP1311532-2	FRONT PANEL
OTHERS				TKR23340	FAN GUARD
				TKR23400	FAN METAL
				TKR23410	PLATE
				TKR23430	METAL FLAME (L)
				TKR23440	METAL FLAME (R)
				TKR23450	METAL FLAME
				TKR23520	CALAR
				TKP1311522	OPERATION DOOR
				TKY131701-1	UPPER CABINET
				TKY131801-1	BOTTOM CABINET
				TLY15229F	DEFLECTION YOKE (G)
				TLY15230F	DEFLECTION YOKE (R)
				TLY15231F	DEFLECTION YOKE (B)
				TMM15205	CRT SOCKET COVER
				TNP100066	CIRCUIT BOARD F
△				TNP51568BZ	CIRCUIT BOARD Q
				TNP51569BZ	CIRCUIT BOARD P
				TNP51570CZ	CIRCUIT BOARD K
				TNP52504AZ	CIRCUIT BOARD V
				TNP52907	CIRCUIT BOARD R
				TNP55165	CIRCUIT BOARD A
				TNP55166	CIRCUIT BOARD B
				TNP55167	CIRCUIT BOARD S
				TNP55168	CIRCUIT BOARD T

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	TNP55169	CIRCUIT BOARD M	N1401	TJC6320	FUSE HOLDER
	TNP55180	CIRCUIT BOARD G		XANT343	NEON LAMP
	TNP6097CB	CIRCUIT BOARD LR	△RL9101	TSE1827	RELAY
	TNP6097CB	CIRCUIT BOARD LG	S1	ESD32170	TERMINATER RESISTOR
	TNP100162AA	CIRCUIT BOARD LB		ESD32170	SWITCH
	TNP100265AA	CIRCUIT BOARD X			SYNC./G SELECTOR
	TNP62344AZ	CIRCUIT BOARD D	S2	ESD32170	SWITCH
	TNP62345ZA	CIRCUIT BOARD TR1		TSE392	NORMAL/SERVICE
	TNP62346ZA	CIRCUIT BOARD TR2			SWITCH
	TNP62358ZA	CIRCUIT BOARD Z	S10		SYNC. INVERSION
	TNP62368ZA	CIRCUIT BOARD H1	S1201	ESD3228	SWITCH
	TNP62369ZA	CIRCUIT BOARD H2	S3001	TSE10418	POWER SWITCH
	TNP62372ZA	CIRCUIT BOARD Y	S3002	ESD32176	BLUE SELECTOR
	TNP66417AZ	CIRCUIT BOARD C			SWITCH
	TNP66418	CIRCUIT BOARD J	S3003	TSE10417	INPUT SELECTOR
	TNX13013	H.V. DISTRIBUTER			SWITCH
	TNX13017	FOCUS PACK	S7002	TSE389	RASTER OFF SWITCH
	TPC1341002	OUTER CARTON	S7003	TSE389	RASTER OFF SWITCH
	TPD131066	CUSHION (UPPER)			
	TPD131067	CUSHION (UPPER)	S7004	TSE389	RASTER OFF SWITCH
	TPD132066	CUSHION (BOTTOM)	S7005	EVQRBAL10	TV/VTR SWITCH
	TPD132067	CUSHION (BOTTOM)	S8001	ESD32170	TEST SWITCH
	TPE174054	SEET	S8002	TSE182	SYSTEM SWITCH
	TQB510042	INSTRUCTION BOOK	△S9001	ESB99577V	MAIN POWER SWITCH
△	TSX3189	POWER SUPPLY CORD			
			S9002	TSE960	GUARD SWITCH
			X601	TSS816M	CRYSTAL OSCILLATOR
△	TSX3197	POWER SUPPLY CORD (AUSTRALIA ONLY)	X602	TSS116M1	CRYSTAL
△	TSX5119	POWER SUPPLY CORD (SAUDI ARABIA ONLY)		TKZ178116	LOCK SCREW
△	TXFCRTRFLZ	PICTURE TUBE (R)		TKX132801	LENS GRIL
△	TXFCRTGFLZ	PICTURE TUBE (G)		THE765	SCREW
△	TXFCRTBFLZ	PICTURE TUBE (B)		TMX13930	LENS SPACER (R/B)
	TXFKR01BE6	METAL ASS,Y			
	XNG1OB	NUT		TMX13929	LENS SPACER (G)
	XTS3+12BFZ	SCREW			
	THT950-2	SCREW		THN2986T	WASHER
	XWB1OB	WASHER		TKR23420	FIXING METAL
	XWH1O	WASHER			
	XYN3+C6S	SCREW			
△ F2	XBA2C31TR0	FUSE 250V 3.15A			
	TPD139177	CARTON			